APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Application de La Mesure De La Micro-Durete A L'Etude Des Diagrammes D'Equilibre Binaires Et Ternaires Des Systemes Metalliques. (Application of the Microhardness Measurement to the Study of the Diagrams of Binary and Ternary Equilibria of Metallic Systems), by V. M. Glasov, V. N. Vigdorovich (Vigdorovitch), G. A. Korolkov, 13 pp.

FRENCH from RUSSIAN, per, Zhur Fiz Khim., Vol XXXI, 1957, pp 1891-1897.

Reverse Translation
AEC/CEA-Tr-R510

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Relation of Zero Charge Points of Certain Metals to pH, by V. I. Heifets, et al. UNCLASSIFIED

RUSSIAN, per: Zhur Fiz Khim, Vol XXXI, No 9, 1957, pp 1992-1999.

*DSIR/TCL 110

Sci - Phys
Nov 58

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Study of the Relation Between the Electrical Conductivity and the Adsorptional and Sensitizing Properties of Zinc Oxide. II. Electronic Processes in Zinc Oxide in Gas Phase Catalysis and Photocatalysis, by I. A. Myasnikov, 13 pp.

RUSSIAN, Zhur, Zhur Fiz Khim, Vol XXXI, No 9, 1957, pp 2005-2011.

AEC NP 171

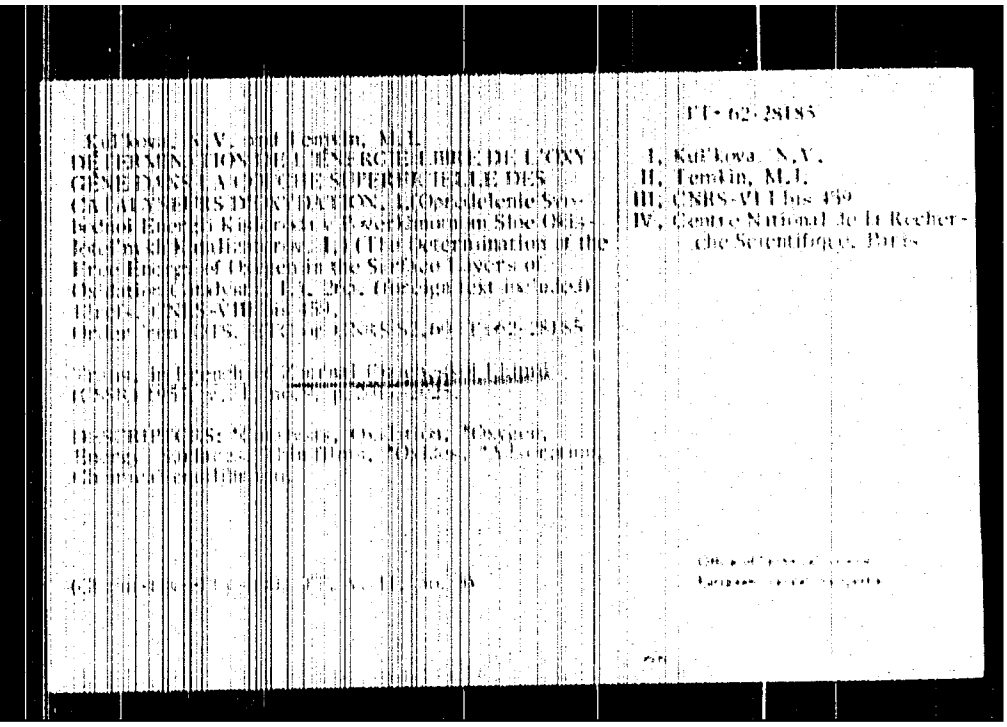
Bel. Chem

Jan 59

79,763

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



TT-62-28185

I, Kul'kova, N.V.
II, Temkin, M.I.
III, CNRS-VI Ibis 459
IV, Centre National de la Recherche Scientifique, Paris

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Antipin, L. N. and Dudyrev, V. K.
THE BEHAVIOR OF THE CARBON ANODE IN THE ELECTROLYSIS OF CRYOLITE-ALUMINA MELTS.
[1962] 10p.
Order from K-11 $12.50 K-11 8024 d

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR)
1957, v. 31, [no. 9] p. 2032-2035.

DESCRIPTORS: *Cryolite, *Aluminum compounds, Oxides, Fused materials, Electrolysis, *Electrochemistry, *Anodes (Electrolytic cell), Carbon.

(Chemistry--Physical, TT, v. 9, no. 11)

63-12927

I. Antipin, L. N.
II. Dudyrev, V. K.
III. K-11-8024-d
IV. Kresge-Hooker Science Library Associates, Detroit, Mich.

TT-63-30129

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Nature of the Chemical Bond in Thiocyanate Complexes of Mk Metals, by Z. V. Zvonkova.

RUSSIAN, Zhur. Fiz. Khim. Vol XXXI, No 9, 1957, pp 2077-2077.

OBIR LLU NTS 1430

Sci - Chem

Aug 60

122,570

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Akhumov, E. I. and Rozen, B. Ya.
SUR LES REGLES D'ADSORPTION DU BROME ET DE L'IODE PAR LES ADSORBANTS MINERAUX EN PRESENCE DES CHLORURES ET SULFATES DE SODIUM ET POTASSIUM [O Zakonomernostyakh Adsorbtsii Broma i Yoda Mineral'nymi Adsorbentami v Prisutstvii Khloridov i Sul'fatov Natriya i Kaliya] [Empirical Correlations in the Adsorption of Bromine and Iodine by Mineral Adsorbents in the Presence of the Chlorides and Sulfates of Sodium and Potassium] tr. by Kefeli. 18 Jan 60 [6 p. 3 refs. CEA Trans. no. R 806 (text in French).
Order from OTS or SLA $1.10 61-23774

Trans. in French of Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR) 1958 v. 32, no. 9, p. 2094-2098.

DESCRIPTORS: *Iodine, *Bromine, Adsorption, Gels, *Catalysts, *Alumina-silica catalysts, Aluminum compounds, Oxides, *Adsorbents, Chlorides, Sulfates.

(Chemistry--Physical, TT, v. 6, no. 7) (over)

61-23774

I. Akhumov, E. I.
II. Rozen, B. Ya.
III. CEA-tr-R806
IV. Commissariat à l Energie Atomique (France)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Heat of Adsorption of N-Hexane and N-Heptane Vapors on Silica Gels, by A. A. Isirikyan, A. V. Kiselev, 12 p.

RUSSIAN, per, Zhur Fiz Khim, 1957, Vol XXXI, No 9, pp 2127-2137.

BLA 60-1058

Bel
May 60
Vol 3, No 4

116, 788

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Methods of Sealing Samples When Studying the Kinetics of Catalytic Processes by the Diaphragm Method, by G. P. Korneichuk, N. A. Stukanovskaya,

[illegible]SIAN, per, Zhur. Fiz Khim, Vol. XXXI, No 9, 1957, pp 2138, 2139.

AID RJ-2034

Chem - Chem
Dec 59

105778

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Work With Alkali Metals, by P. P. Pugachevich, 6pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXI, 1957, pp 2140-2142.

Australian AEC/E-27

Oct 59

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

[redacted]

Mise en evidence du radical hydroxyle libre
par les spectres d'absorption des produits
secondaires des reactions photochimiques
en solution aqueuse. by G. A. Korshunovskii,
9 pp.

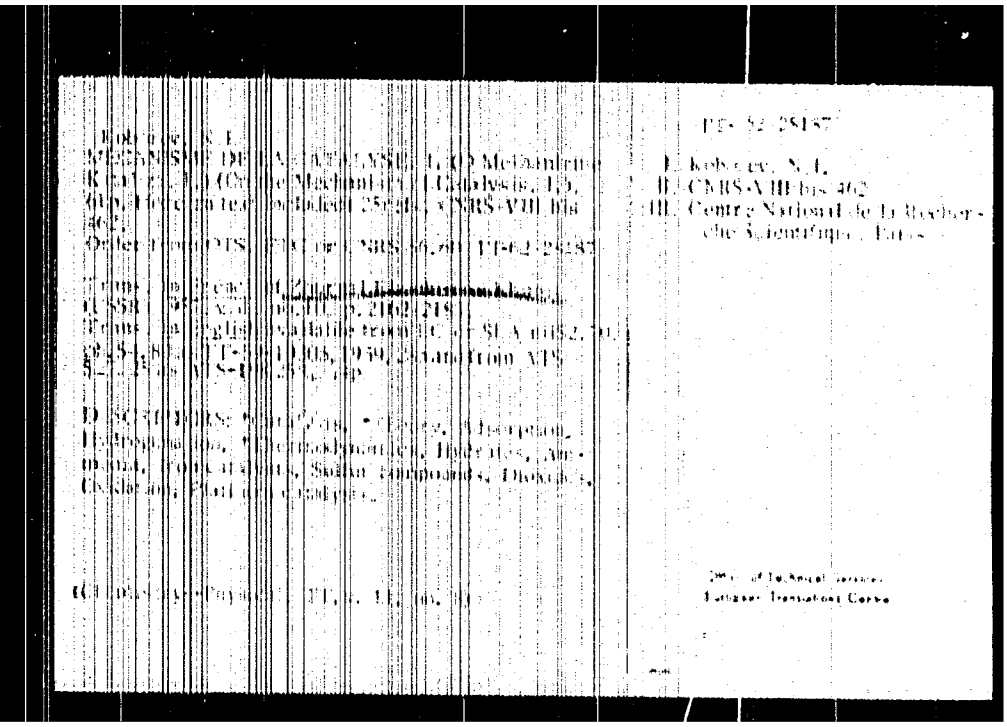
RUSSIAN to FRENCH,per. ZH. Fiz.Khim., SSSR.,
Vol 31, No 10 , 1957., 9069-9344

CEA R-1653
Reverse Translation

Sci
Nov 62

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

The Chemical Structure of the Surface of Quartz and of Silica Gel and Its Hydration, by S. P. Zhdanov, A. V. Kiselev.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXI, No 10, 1957, pp 2213-2223.

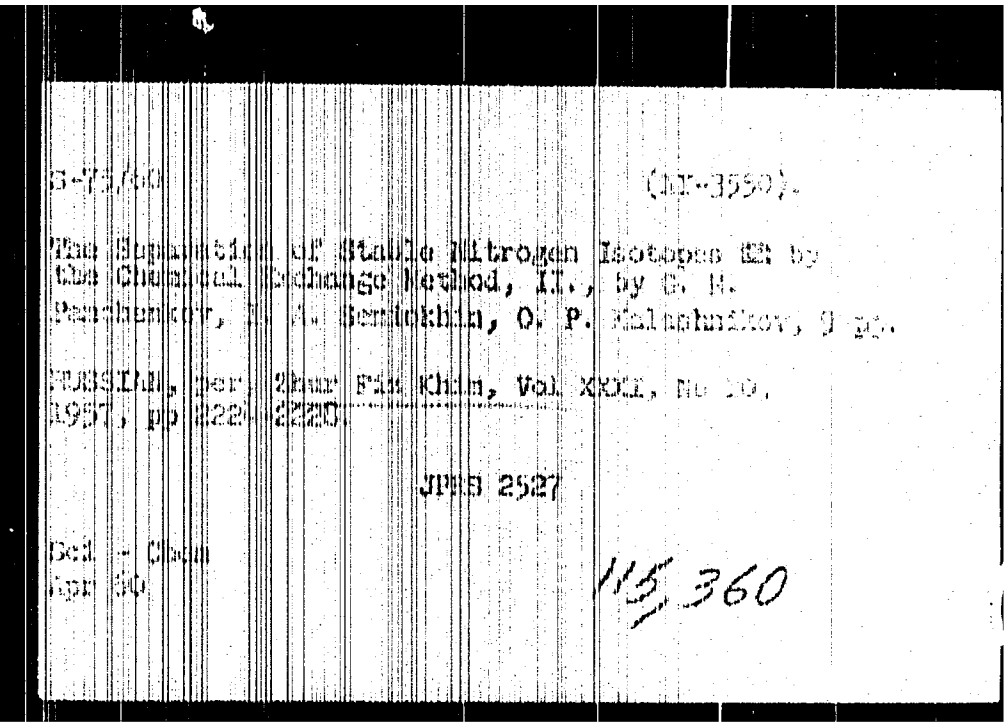
ATS RJ-1276

Sci - Phys, Chem
Apr 60

114, 568

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



S-73,760 (NP-3550).

The Separation of Stable Nitrogen Isotopes by the Chemical Exchange Method, II., by G. M. Panchenkov, [illegible] Zemlyakhin, O. P. Malyshkin, 9 pp.

RUSSIAN, Zhur Fiz Khim, Vol XXXI, No 10, 1957, pp 2220-2220.

JPRS 2527

Bel - Chem
Apr 60

NP 3550

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Mechanism of Metallic Corrosion in Narrow Crevices and Slits. III. Corrosion of Aluminium and Some of Its Alloys, by I. L. Rosenfel'd, et al.
UNCLASSIFIED

RUSSIAN, Zhur Fiz Khim, Vol XXXI, No 10, 1957, pp 2148-2156.

Co-op Tr Sch 5;8

Sci - Him/Met

Mar 58

8.2,417

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Belashchenko, D. K.
VISCOUS AND ELECTRICAL PROPERTIES OF LIQUID BINARY ALLOYS AND THEIR RELATION TO THE STRUCTURE OF THE LIQUID. [1960] 16p. (8 figs. omitted) 9 refs.
Order from LAC as SLA ph$2.40, ph$3.30 61-10271

Trans. of [Zhurnal Fizicheskoy Khimii (USSR) 1957 v. 31, no. 10, p. 2269-2277.

The hysteresis of the viscosity and the electrical conductivity of liquid alloys in the Cd-Sb, Pb-Tl and Bi-Tl systems was found. The alloys of the Sb-Sn and Cd-Cu do not develop hysteresis of these properties. A considerable influence of ordering on the properties of the systems was found. A tendency towards the appearance of anomalies according to the degree of removal from the ideal state was noticed. (The sequence is: Pb-Tl Sb-Sn Fe-Ni Bi-Tl Cd-Sb Cd-Cu). (Author)

(Chemistry--Physical, TT, v. 5, no. 4)

61-10271

1. Alloys--Electrical properties
2. Alloys--Viscosity
1. Belashchenko, D. K.

143/189

ON ce of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Some Problems in the Theory of Electro-Deposition of Alloys III. Oscillographic Study of Cathode Potential in the Process of Alloy Deposition, by Yu. D. Polukarov, K. M. Gorbunova, 13 pp.

RUSSIAN, Zh. Fiz. Khim, Vol XXXI, No 10, 1957, pp 2281-2286.

AFSC-TR-59-19565
61-20969
919,057
ATD-CJ-2717

Sel
Jun 60
Vol XXX, No 5

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

A Sensitive Method for the Determination of Diffusion Coefficients, by V. A. Goodskyan, A. A. Zhukhovitsky, 10 pp.

RUSSIAN, per: Zhur Fiz Khim, Vol XXXI, 1957, pp 2295-2301. 77077-32

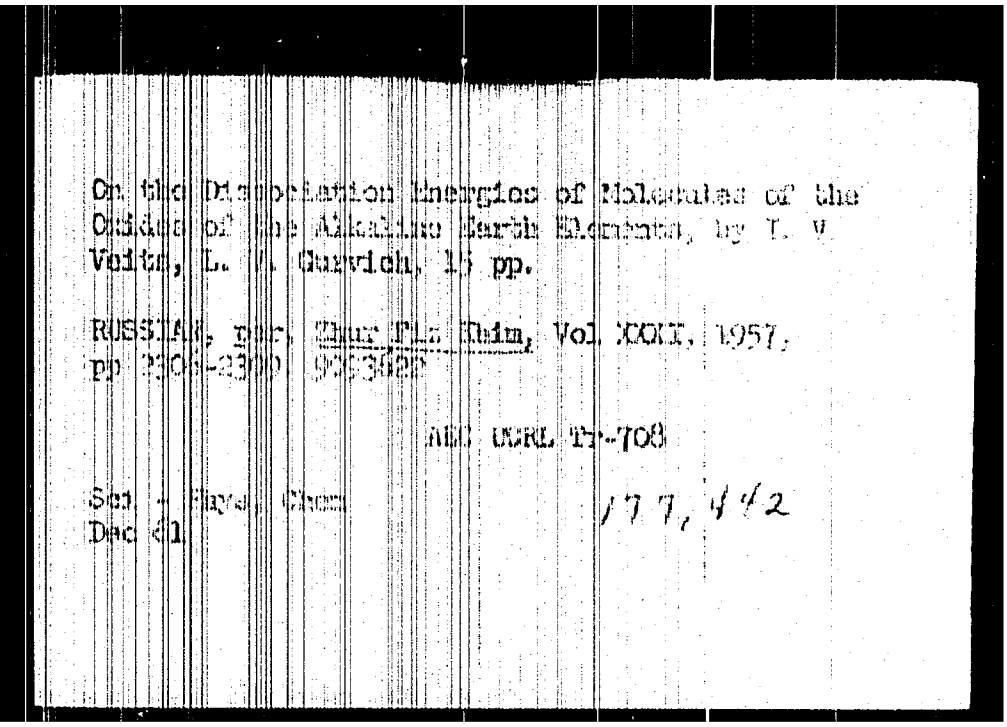
AEC-Tr-5663

Sci - Phys
Jun 63

231,876

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



On the Dissociation Energies of Molecules of the Oxides of the Alkaline Earth Elements, by T. V. Veitz, L. V. Gurvich, 15 pp.

RUSSIAN, pub, Zhur Fiz Khim, Vol XXXI, 1957, pp 2301-2309 (SOV/62)

AEC (ORNL) tr-708

Sci - Phys. Chem.

Dec 61

177, 442

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

The Diffusion of Phosphorus and Calcium in Melts of $CaO-Al_2O_3-SiO_2$ and $CaO-P_2O_5$, by O. A. Yesin, Ye. S. Vorontsov, S. K. Chuchmarev, 10 pp.

RUSSIAN, Per, Zhur Fiz Khim, Vol XXXI, No 10, 1957, pp 2322-2327.

SLA 60-1771

Sci

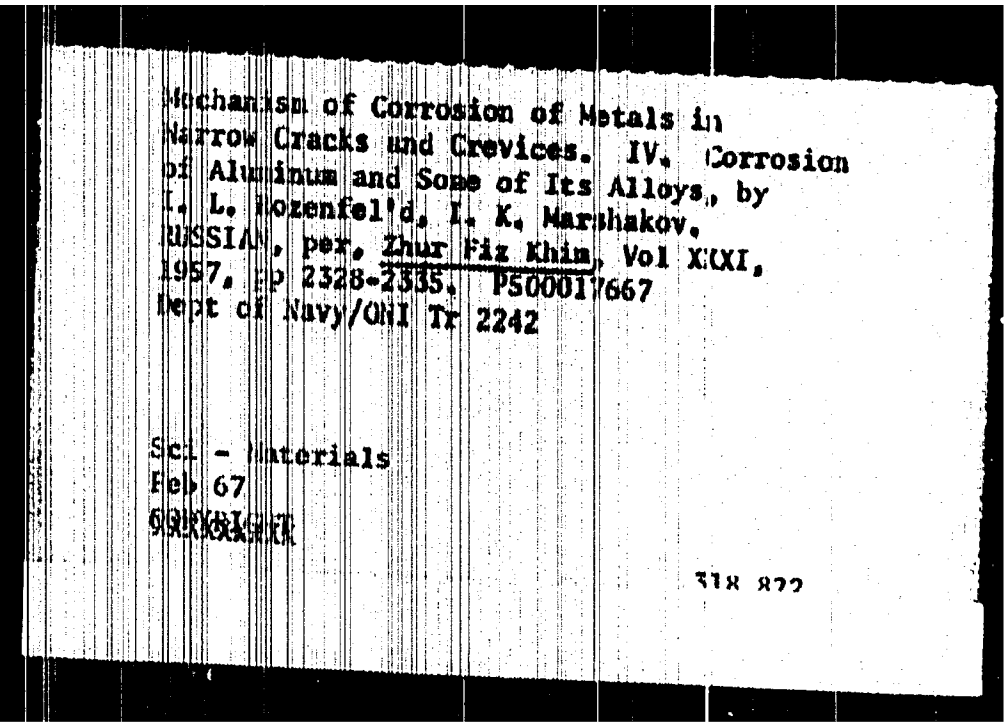
OTS, Vol IV, No 3

Sep 60

129,410

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Mechanism of Corrosion of Metals in Narrow Cracks and Crevices. IV. Corrosion of Aluminum and Some of Its Alloys, by I. L. Rozenfel'd, I. K. Marshakov, RUSSIAN, per. Zhur Fiz Khim, Vol XXXI, 1957, pp 2328-2335. P50001667
Dept of Navy/ONI Tr 2242

Sci - Materials
Feb 67
60XXXXXXX

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

On the Problem of Crystallization of Ultra-Pure Substances, by P. G. Vadilo, [illegible]

RUSSIAN, per, Zhur Fiz Khim, Vol XXXI, No 10, 1957, pp 2375-2376. [illegible]

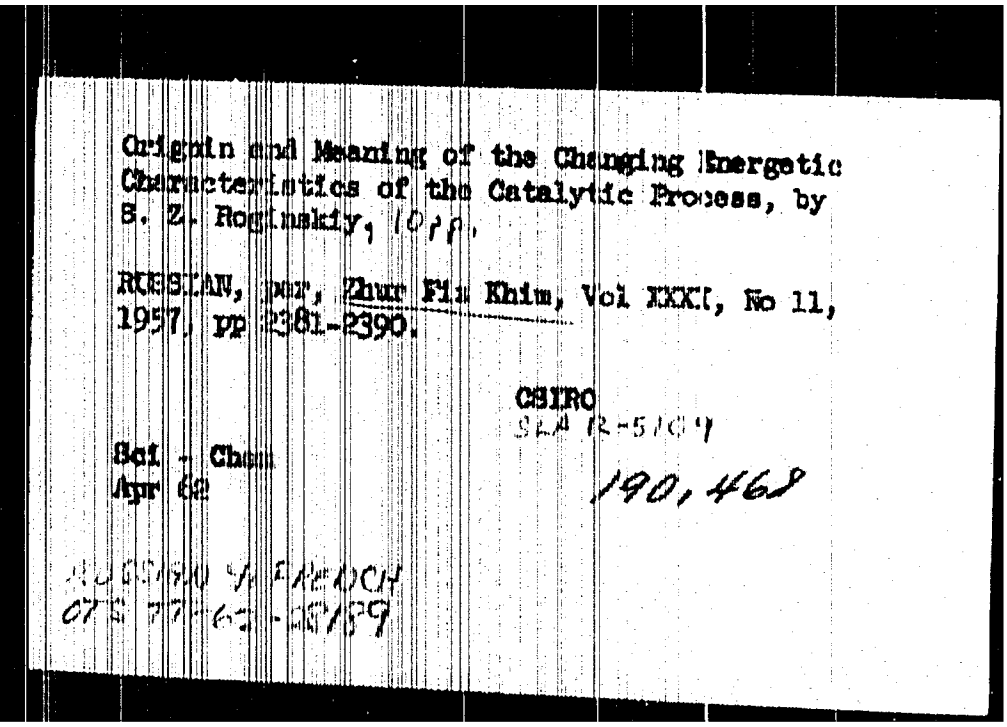
Navy Tr 2582/NRL 80[illegible]

Sci - Chemistry
Jul 60

120,765

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Origin and Meaning of the Changing Energetic Characteristics of the Catalytic Process, by S. Z. Roginskiy, 1958.

RUSSIAN, Pub, Zhur Fiz Khim, Vol XXXI, No 11, 1957, pp 2381-2390.

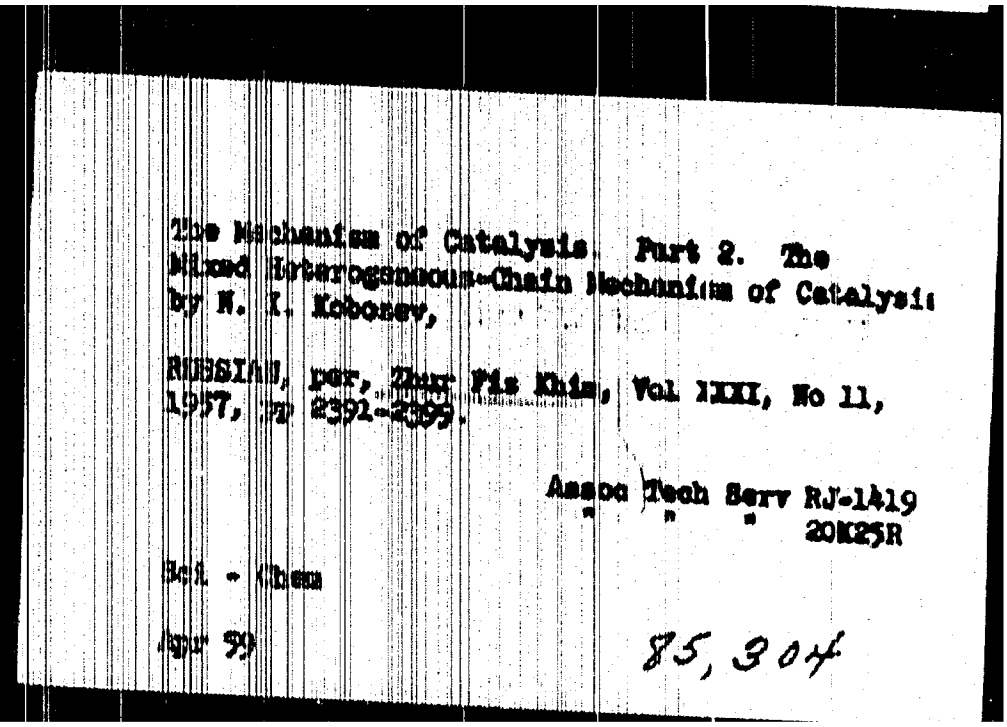
CSIRO
SLA 12-5/C4

Sci - Chem
Apr 62

190,468

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



The Mechanism of Catalysis. Part 2. The Mixed Heterogeneous-Chain Mechanism of Catalysis
by N. M. Kobozev,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXI, No 11, 1957, pp 2391-2399.

Amaco Tech Serv RJ-1419
" " " 20K25R

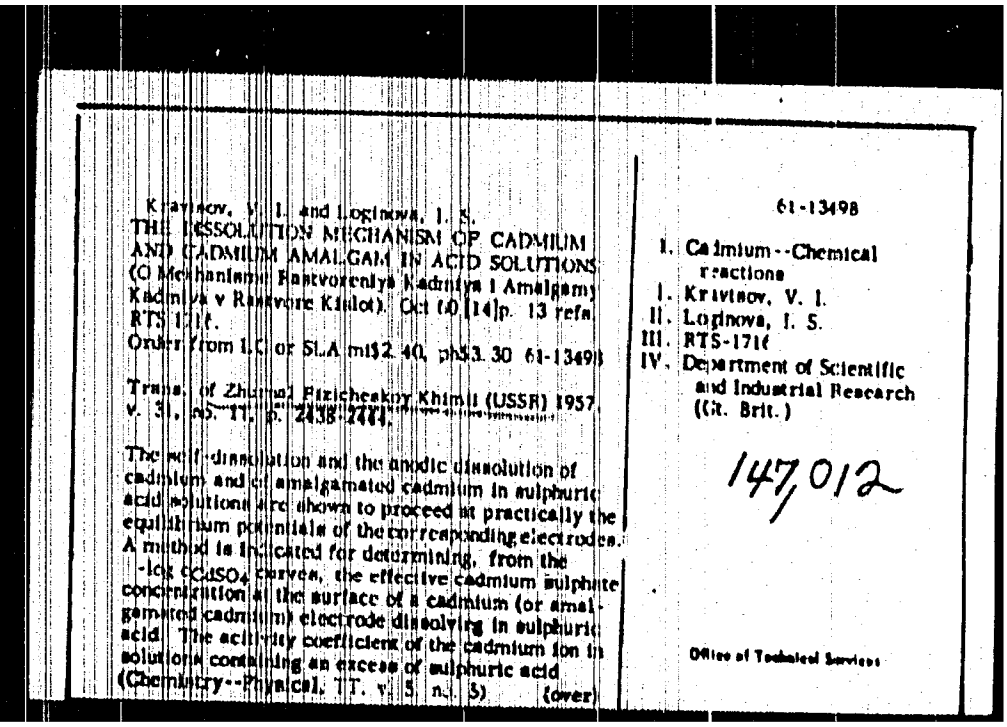
Ref - Chem

Appr 59

85,304

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Kravtsov, V. I. and Loginova, I. S.
THE DISSOLUTION MECHANISM OF CADMIUM AND CADMIUM AMALGAM IN ACID SOLUTIONS (O Mekhanizme Rastvoreniya Kadmiya i Amalgamy Kadmiya v Rastvorakh Kislot). Oct 60 [14]p. 13 refs. RTS 1716.
Order from I.C. or SLA mi$2.40, ph$3.30 61-13498

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1957, v. 31, no. 11, p. 2438-2444.

The self-dissolution and the anodic dissolution of cadmium and of amalgamated cadmium in sulphuric acid solutions are shown to proceed at practically the equilibrium potentials of the corresponding electrodes. A method is indicated for determining, from the $-\log c_{CdSO_4}$ curves, the effective cadmium sulphate concentration at the surface of a cadmium (or amalgamated cadmium) electrode dissolving in sulphuric acid. The activity coefficient of the cadmium ion in solutions containing an excess of sulphuric acid
(Chemistry--Physical, TT. v. 5, n. 5) (over)

61-13498

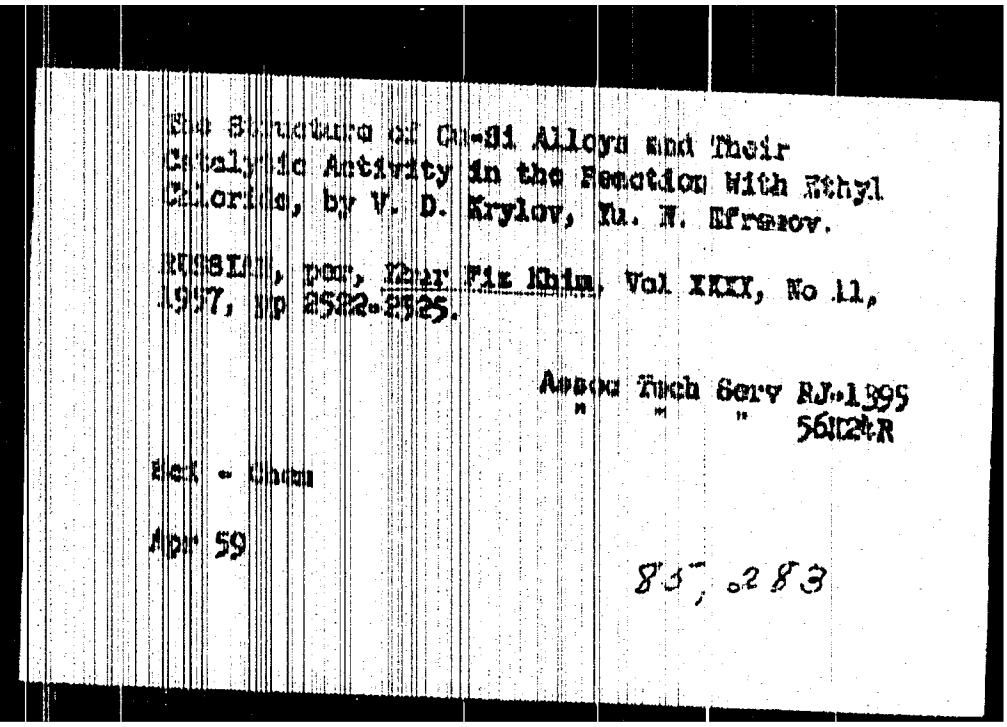
1. Cadmium--Chemical reactions
I. Kravtsov, V. I.
II. Loginova, I. S.
III. RTS-1716
IV. Department of Scientific and Industrial Research (Gt. Brit.)

147,012

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



The Structure of Cu-Al Alloys and Their Catalytic Activity in the Reaction With Ethyl Chloride, by V. D. Krylov, Yu. N. Efremov.

[illegible], Zhur. Fiz Khim, Vol XXXI, No 11, 1957, pp 2522-2525.

Abstr Tech Serv RJ-1395
" " " 56124R

Elec - Chem

Apr 59

87-2283

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

The Catalytic Effect of Solid Products in the Reduction of Nickel and Copper Oxides by Hydrogen. By V. V. Boldyrev, A. S. Ermolayev.

FHBXHH, Ber. Zhur Fiz Khim, Vol XXXI, No 11, 1957, pp 2562-2570.

Aeron Tech Serv RJ-1393
" " " 14K25R

Ref - Chem

Apr 58

85,282

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Method for Polarization Measurements in Poorly Conducting Solutions, by V. A. Gus'kov, M. Ya. Fiol'kin.

RUSSIAN, pmr, Zhur Fiz Khim, Vol XXXI, No 11, 1957 pp 2575-2576.

MIT Lincoln Lab

Sci - Phys

Apr 58

60, 4-9-4

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

An Apparatus for the Joint Determination of Viscosity, Density and the Fusion-Solidification Temperatures, by E. S. Bug. Bubyreva, B. I. Markin, B. P. Bindas, Yu. A. Sillin, K. V. Chmutov, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXI, 1957, pp 2580-2583.

ABC Tr 3539

Sci - Miyn
Mar 59

82,889

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Mindovich, E. Ya.
DISCUSSION SUR LA REPARTITION D'UNE SUBSTANCE ENTRE LES DEUX PHASES NON MISCIBLES [ON THE DISTRIBUTION OF MATTER BETWEEN TWO IMMISCIBLE PHASES] tr. by Schkaff. Reply to the paper by F. S. Kulikov. 15 Dec 59 [11]p. 13 refs. CEA Transl. no. R 779 (text in French).
Order from OTS as SLA $1.60 61-23743

Trans. in French of Zhurnal] Fiz[icheskoi] Khim[ii] (USSR) 1957, v. 31, no. 12, p. 2755]. (Original article pub. in Zhurnal Fizicheskoi Khimii (USSR) 1954, v. 28, p. 2282ff).

DESCRIPTORS: Chemical equilibrium, *Picric acid, *Water, *Nitrobenzenes, Benzenes.

(See also 61-19600)

(Chemistry--Physical, TT, v. 6, no. 7)

61-23743

I. Mindovich, E. Ya.
II. Kulikov, F. S.
III. Title: Répartition...
IV. CEA-tr-R779
V. Commissariat à l'Energie Atomique (France)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

[redacted]

The Formation of Hydrogen Peroxide During Oxidation of Formaldehyde, by A. M. Markovich, L. M. Filippova. UNCL

RUSSIAN, per, Zhur Fiz Khim, Vol XXXI, 1957, pp 2049-2055.

[redacted] XXX LIU M.1282

(loan)

111/136

Del + Chem
Mar 60

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

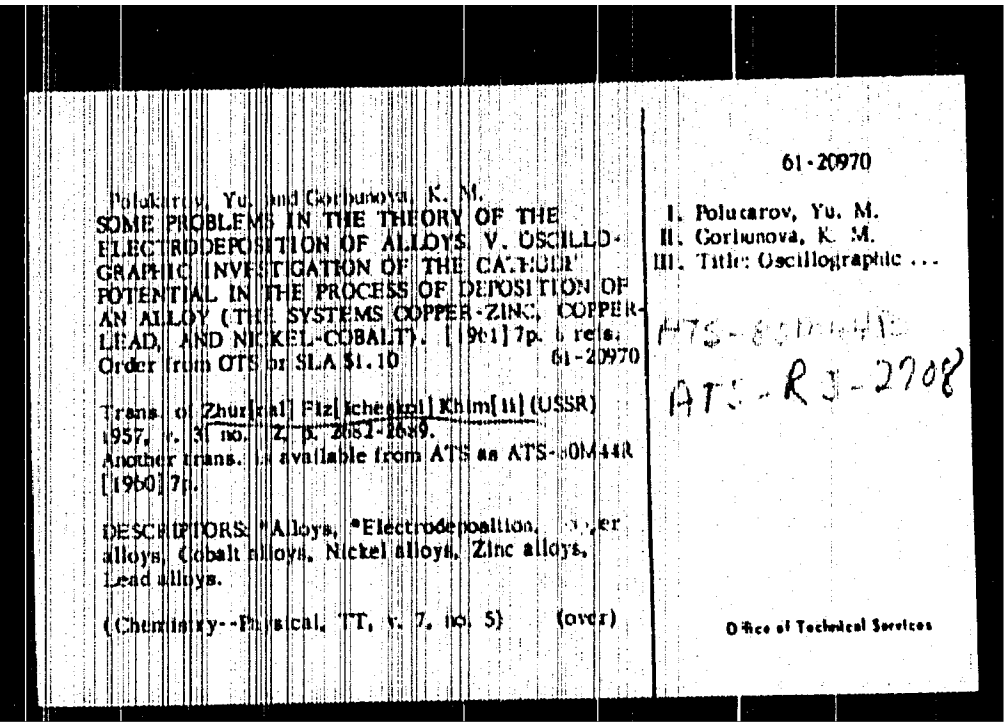
APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

On the Tautomerism of Certain Derivative Heterocyclic Compounds. Part V. Absorption Spectra and Structure of Certain Sulfanilamides, by Yu. N. Sheinker.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 31, No 12, 1957, pp 2655-2662.
NTC-70-13189-07C

Feb 72

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Polukarov, Yu. and Gorbunova, K. M.
SOME PROBLEMS IN THE THEORY OF THE ELECTRODEPOSITION OF ALLOYS. V. OSCILLOGRAPHIC INVESTIGATION OF THE CATHODE POTENTIAL IN THE PROCESS OF DEPOSITION OF AN ALLOY (THE SYSTEMS COPPER-ZINC, COPPER-LEAD, AND NICKEL-COBALT). [1961] 7p. 6 refs.
Order from OTS or SLA $1.10 61-20970

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1957, v. 31 no. 2, p. 2681-2689.
Another trans. is available from ATS as ATS-60M44R [1960] 7p.

DESCRIPTORS: *Alloys, *Electrodeposition, Copper alloys, Cobalt alloys, Nickel alloys, Zinc alloys, Lead alloys.

(Chemistry--Physical, TT, v. 7, no. 5) (over)

61-20970

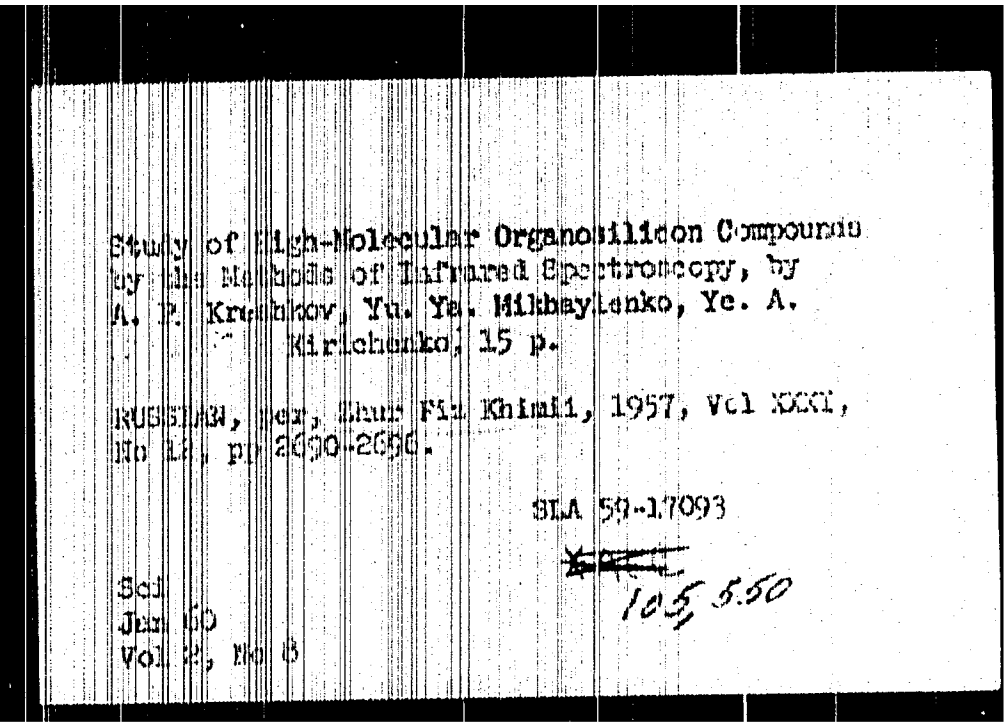
I. Polucarov, Yu. M.
II. Gorbunova, K. M.
III. Title: Oscillographic ...

ATS-60M44R
ATS-R 3-2708

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Study of High-Molecular Organosilicon Compounds by the Methods of Infrared Spectroscopy, by A. P. Krasnov, Yu. Ya. Nikbaylenko, Ye. A. Kirilchenko, 15 p.

RUSSIAN, Zhur. Fiz. Khimii, 1957, Vol XXXI, No 12, pp 2690-2696.

BLA 59-1.7093

Sec
Jan 60
Vol 32, No 6

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Some Characteristics of Oxygen Depolarisation Processes, by A. I. Krasil'shchikov.

RUSSIAN, per, Zhur Fiz Khimii, Vol XXXI, No 12, D 1957, pp 2705-2710.

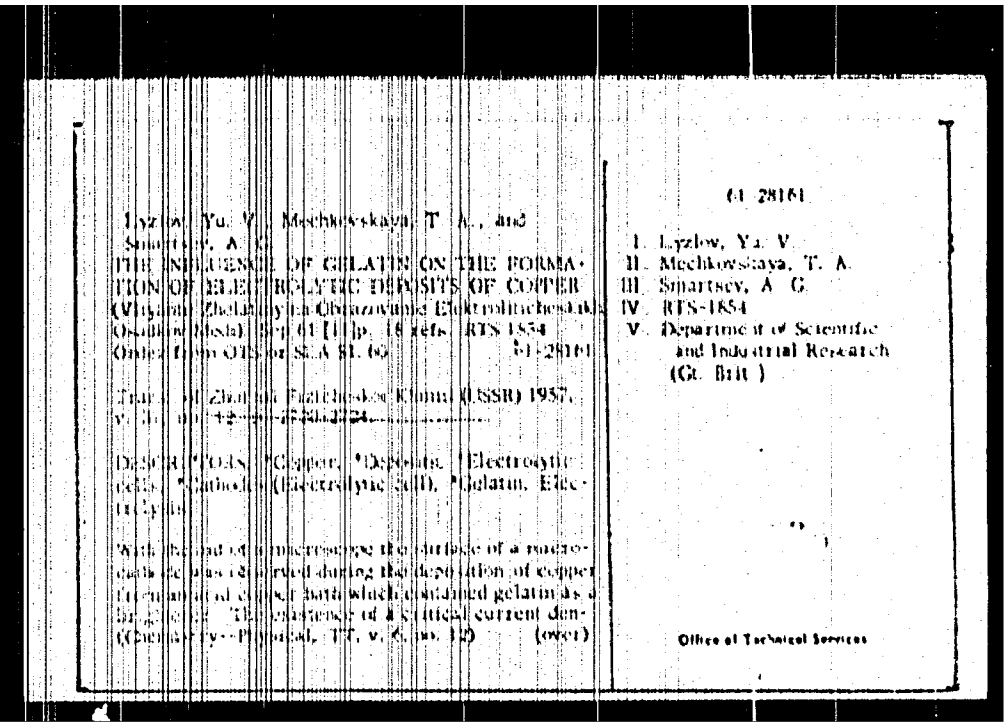
CSIRO

Ext - Chem
Oct 61

171, 375

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Lyzlov, Yu. V., Mechkovskaya, T. A., and Smartsev, A. G.

THE INFLUENCE OF GELATIN ON THE FORMATION OF FILIFORM DEPOSITS OF COPPER (Vliyaniye Zhelatiny na Obrazovaniye Elektrolitcheskikh Osadkov Medi) Moscow, 1957. 61 [1] p. 18 refs. RTS-1854 Order from OTS or SLA $1.00 61-28161

Translation of Zhurnal Fizicheskoy Khimii (USSR) 1957, v. 31, no. 12, pp. 2722-2724.

DeSOR *OTS, *Copper, *Deposits, *Electrolytic cells, *Cathodes (Electrolytic Cell), *Gelatin, Electrolysis

With the aid of a microscope the surface of a cathode has been observed during the deposition of copper from electrolytes which contained gelatin as a [illegible]. The existence of a critical current density [illegible] Physical, Vol. 5, no. 12) (over)

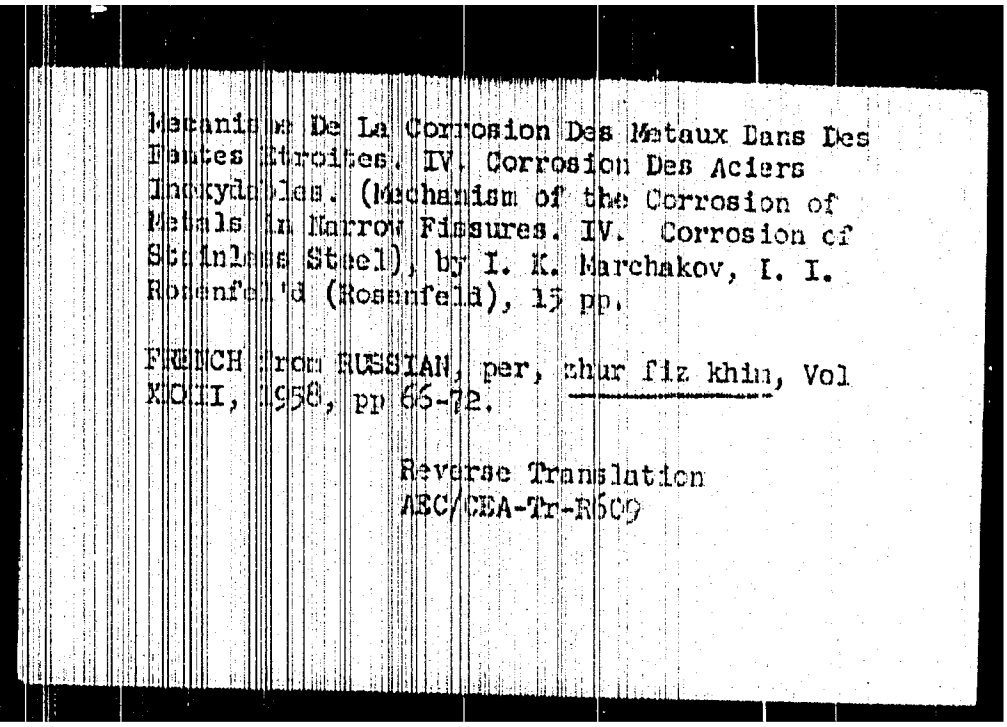
61-28161

I. Lyzlov, Yu. V.
II. Mechkovskaya, T. A.
III. Smartsev, A. G.
IV. RTS-1854
V. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Mechanism De La Corrosion Des Metaux Dans Des Fentes Etroites. IV. Corrosion Des Aciers Inoxydables. (Mechanism of the Corrosion of Metals in Narrow Fissures. IV. Corrosion of Stainless Steel), by I. K. Marchakov, I. I. Rosenfel'd (Rosenfeld), 15 pp.

FRENCH from RUSSIAN, per, zhur fiz khim, Vol XXXII, 1958, pp 66-72.

Reverse Translation
AEC/CEA-Tr-R509

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

A Study of the Oxidation of Metals Under the Conditions of Glow Discharge in Oxygen, by R. I. Kenarevn, 16 pp.

RUSSIAN, per. Zhur Fiz Khim, Vol XXXII, 1958, pp 79-83.

AEC 3455

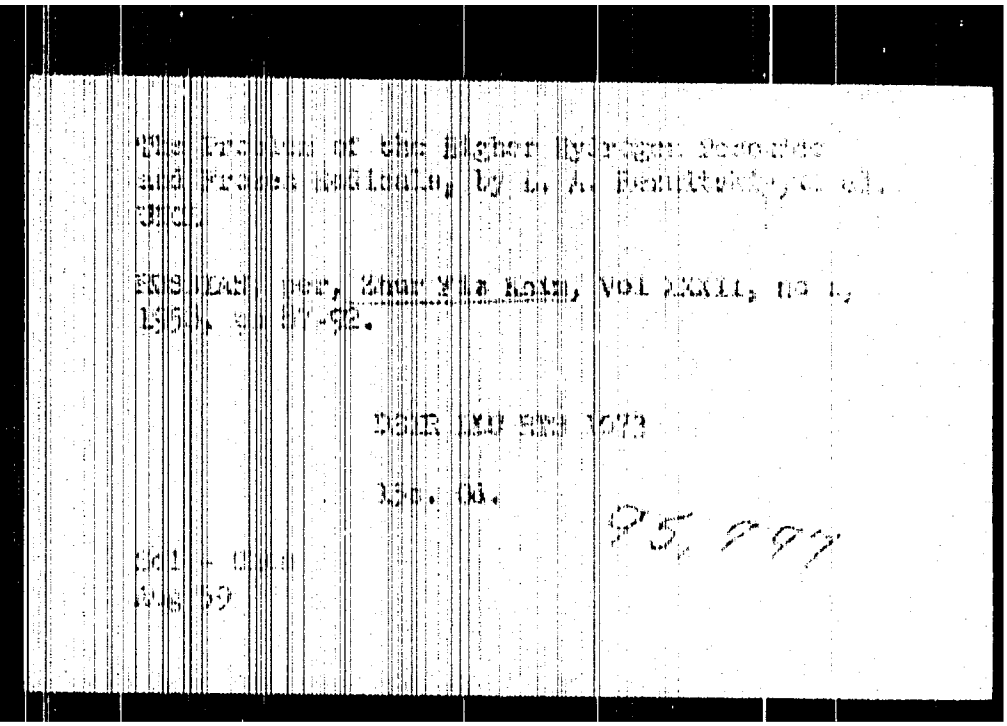
Chem
Sci - Phys

Jan 59

79, 561

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



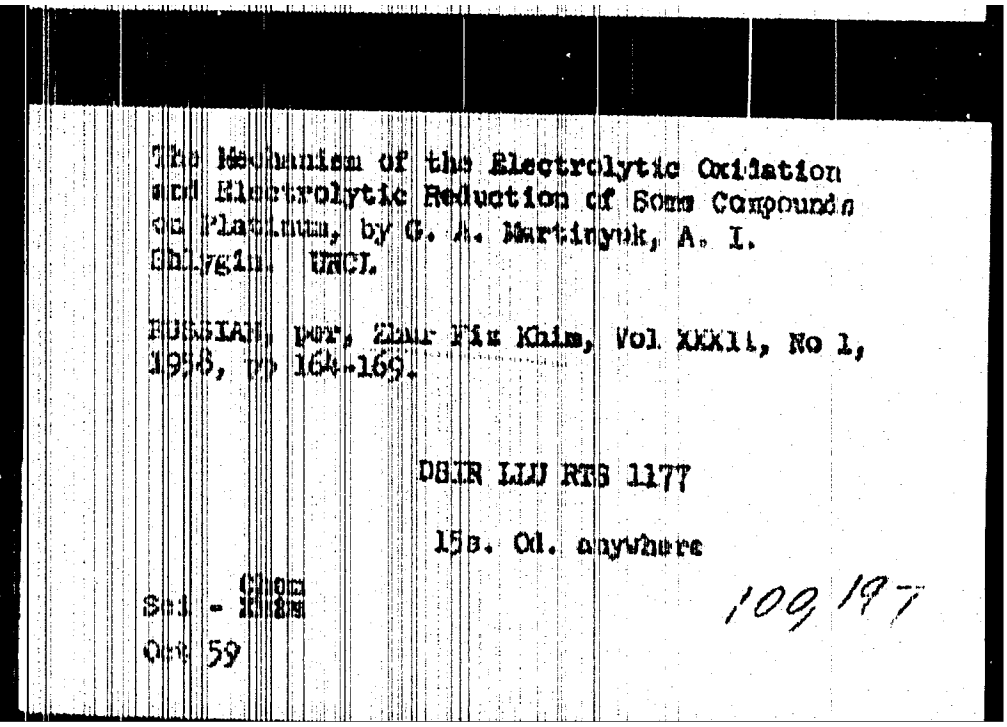
APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

The Electrocapillary Behavior of Unsaturated Alicyclic and Aliphatic Hydrocarbons, by M. A. Gerovich, O. F. Rybal'chenko.
RUSSIAN, per, Zhur Fiz Khim, Vol 32, No 1, 1958, pp 109-115.
*ABC

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



The Mechanism of the Electrolytic Oxidation and Electrolytic Reduction of Some Compounds on Platinum, by G. A. Martinyuk, A. I. Shlygin. UNCL.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 1, 1958, pp 164-169.

DSIR LLU RES 1177

15s. Od. anywhere

109197

Sep 59

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Kinetics of the Interaction Between
Gases and the Surface of Metals,
by V. A. Arslambekov.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii,
Vol 32, 1958, pp 170-177
NTC 72-60220-07D

July 72

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

An Apparatus for Measuring Contact Difference of Potentials by a Condenser Method, by M. Kh. Burshtein, Y. A. Larin. (UNCLASSIFIED)

RUSSIAN, per, Zhurnal Fiz. Khim., SSSR, Vol XXXII, No 1, 1958, pp 194, 195.

Navy Tr 1789/NRL 675

Sci - Eng

Jul 53

66,388

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Oxidizing Processes in Organic Systems Under the Influence of Ionizing Radiation, by B. M. Dzhh, V. V. Barkalova, 16 pp.

ZHBBKAN, Per, Zhur Fiz Khim, Vol XXXII, 1958, No 2, pp 205-216.

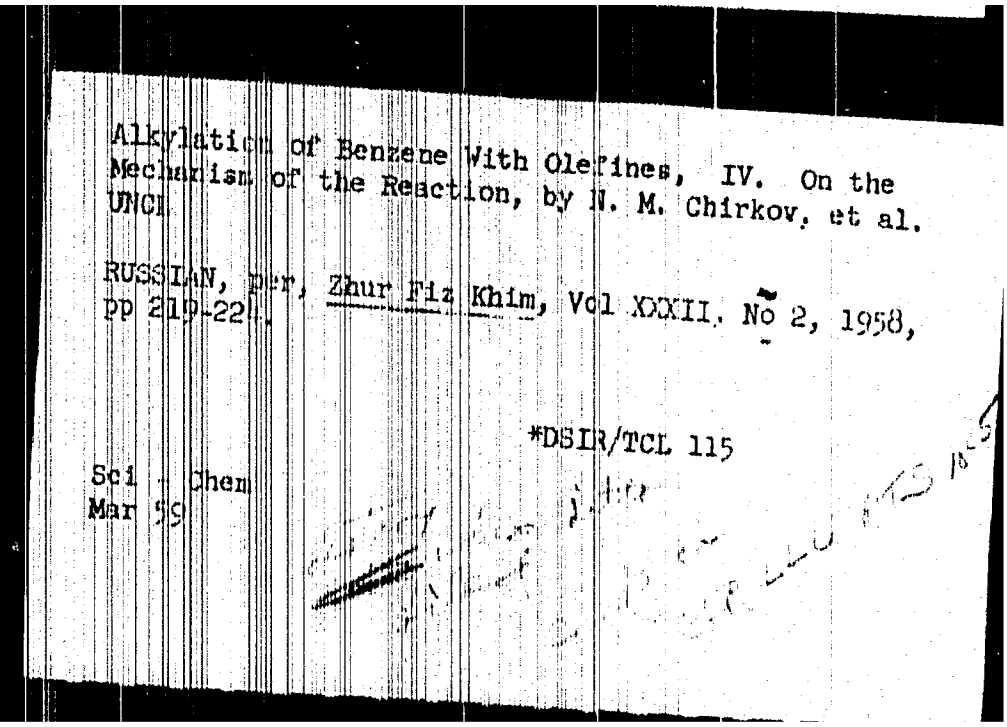
ABC 3408
ATSIRT-1611
DSIR 220 PTS 1010
78, 275

Bel + Phys

Dec 58

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Alkylation of Benzene With Olefines, IV. On the Mechanism of the Reaction, by N. M. Chirkov, et al.
UNCL

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 2, 1958, pp 219-22.

*DSIR/TCL 115

Sci - Chem
Mar 59

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

The Electrocapillary Behavior of Unsaturated Alicyclic and Aliphatic Hydrocarbons, by M. A. Geinovich and G. F. Rybal'chenko, 6 pp.
RUSSIAN, per, Zhur Fiz. Khim, Vol 32, No 1, 1958, pp 109-115. PB112777567
AEC tr-64

Sci-Physics
Sept 67

341,519

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

The Theory of Glass Electrodes, by E. P. Nikol'skiy, M. M. Shul'ts, N. V. Peshekhonova, 9 pp.

[RUSSIAN], per, Zhurnal Fiz Khim, Vol XXXII, No 2, 1950, pp 262-269. 9059964

NIH 3-55-62

199,709

Sci - Med

Jun 62

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

15 434 GF-4

RADUSKEVICH L. V.

Theory of particle precipitation from a gas flow on an isolated cylinder as a function of the filtration process of aerosols

Theorie des Niederschlagens von Teilchen aus der Gasströmung auf einem isolierten Zylinder in Abhängigkeit vom Filtrationsprozess von Aerosolen

Zhur. Fiz. Khim., [illegible] 282-290 (1958)

German

Euratom

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Theory of the Separation of a Gaseous Mixture Under High Pressures, by V. I. Kuz'mich, Yu. I. Z. Fisher. USCL

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 2, 1958, pp 291-297.

DSIR LIU RTS 1038

17s.6d.

Sci - Phys
Sep 59

95, 830

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Nature of Thermodynamic Properties and the Transition of Gas to Liquid in the Supracritical Region, by M. P. Rudgaiser, 20 pp.

RUSSIAN, pub, Zhur Fiz Khim, Vol XXXII, 1958, pp 332-339.

Natl Res Council of Canada
TT-834

Sci - Phys, Chem
Jun 60

105827

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

The Effect of the Addition of Organic Solvents on Ion Exchange Equilibrium of Ions of Alkali Metals on Sulpho Resins, by b G. M. Panchenkov, et al. UNCL

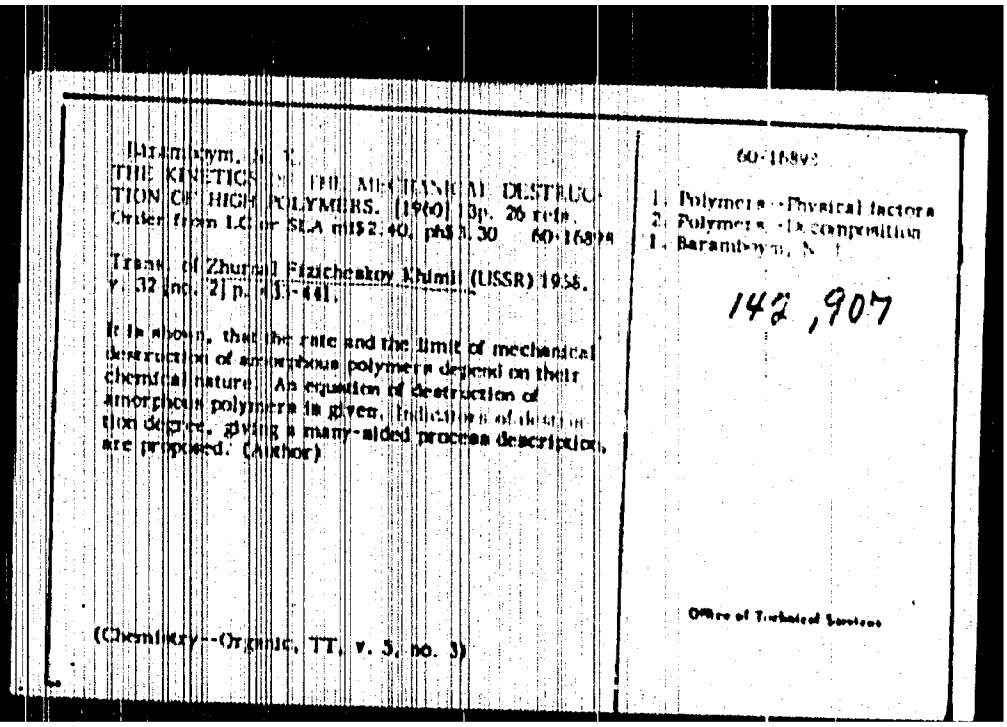
RUSSIAN, per, Zhur Fiz KHim, Vol XXXII, No 2, 1958, pp 361-368.

*DSIR/TCL 115

Sci - Chem
Mar 59

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Translation.
THE KINETICS OF THE MECHANICAL DESTRUCTION OF HIGH POLYMERS. [1960] 3p. 26 refs.
Order from LC or SLA @$2.40, ph$3.30 60-16894

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1958. v. 32 [no. 2] p. [353-44].

It is shown, that the rate and the limit of mechanical destruction of amorphous polymers depend on their chemical nature. An equation of destruction of amorphous polymers is given. Indications of this equation degree, giving a many-sided process description, are proposed. (Author)

(Chemistry--Organic, TT, v. 5, no. 3)

60-16894

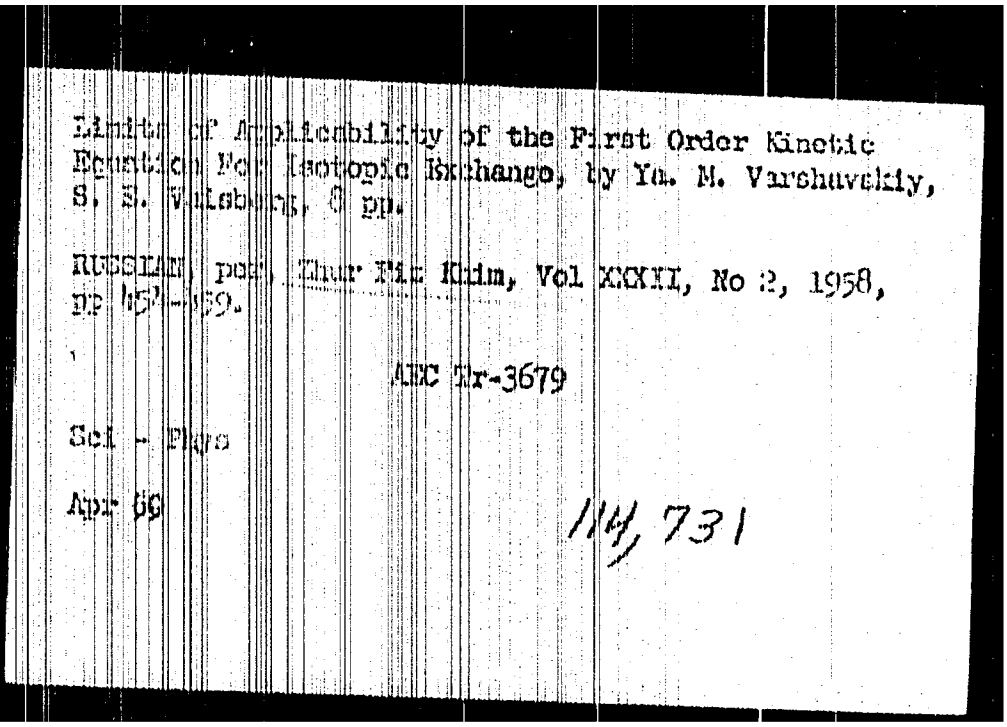
1. Polymers--Physical factors
2. Polymers--Decomposition
I. Baramboym, N. K.

142,907

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Limits of Applicability of the First Order Kinetic Equation for Isotopic Exchange, by Ya. M. Varshavskiy, S. Z. Vatsadze, 8 pp.

RUSSIAN, per: Zhur Fiz Khim, Vol XXXII, No 2, 1958, pp 452-459.

AEC Tr-3679

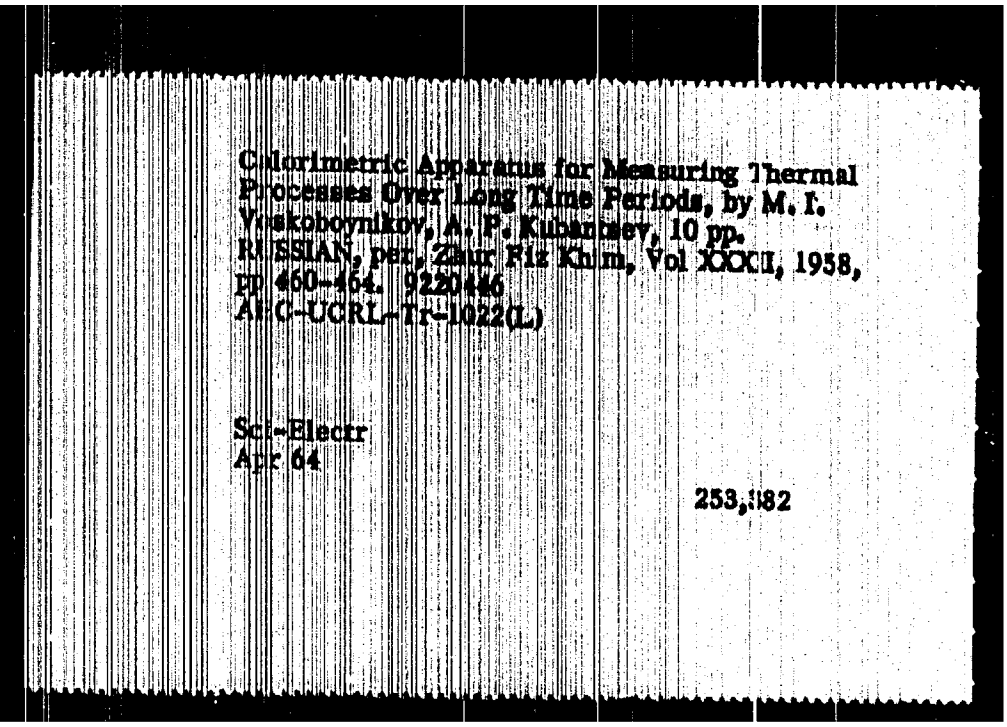
Sci - Phys

Apr 59

114, 731

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Calorimetric Apparatus for Measuring Thermal Processes Over Long Time Periods, by M. I. Yeskobovnikov, A. P. Kubantsev, 10 pp. RUSSIAN, per. Zhur Fiz Khim, Vol XXXII, 1958, pp 460-464. 9220446
AEC-UCRL-Tr-1022(L)

Sci-Electr
Apr 64

253,182

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Relationship Between Hydrogen Overvoltage on Alloys and Their Interatomic Distances, by N. S. Poltoranin. UKCL

RUSSIAN, per. Zhur Fiz Khim, Vol XXXII, No 3, 1958, pp 506-511.

WSIE LIU FTS 1117

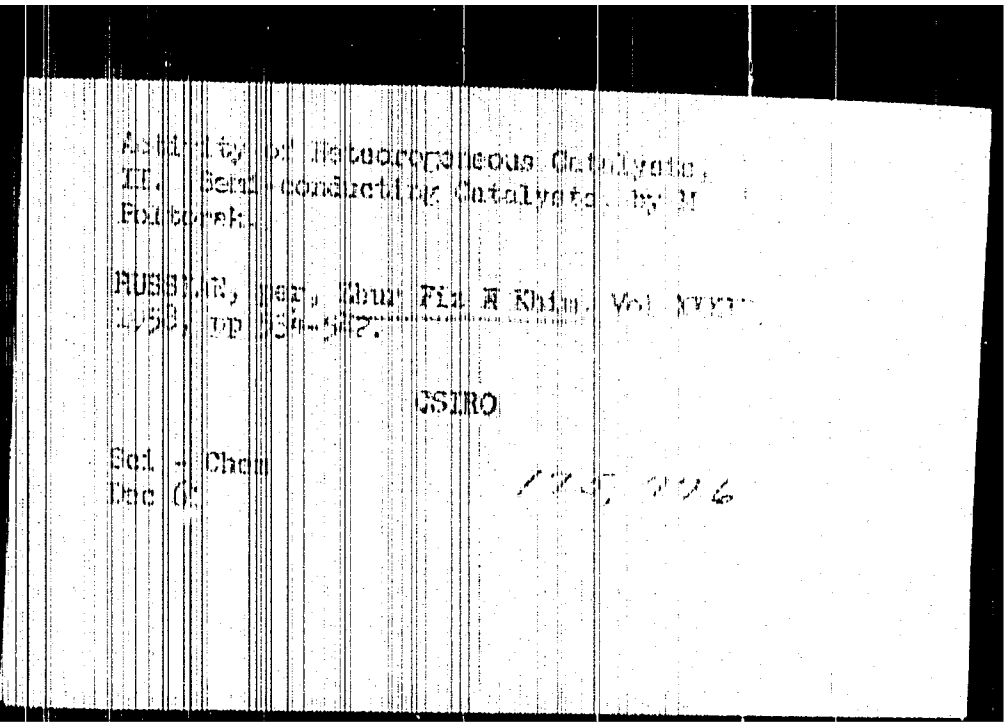
(12s. 6d.)

Bel - Phys
Nov 59

10?, 785

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Activity of Heterogeneous Catalysts.
II. Semi-conducting Catalysts by
Footprint.

RUBBER, Zhur Fiz K Khim, Vol xxvi
1952, pp [illegible].

CSIRO

Sci - Chem
Dec (

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Pal'm, V. A.
AN INVESTIGATION OF THE CHLOROSULPHONATION REACTION. II. KINETICS OF THE CHLORINATION OF p-PHENYLURETHANESULPHONIC ACID BY CHLOROSULPHONIC ACID (Issledovaniye Reaktsii Khlorsul'firovaniya. II. Kinetika Khlorirovaniya p-Feniluretilansul'fokisloty Khlorsul'fonovoy Kislotoy)
Jan 61 [1+]p. 2 refs. RTS 1732.
Order from: LC or SLA mi$2.40, ph$3.30 61-15640

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1958, v. 32, no. 3, p. 620-627.

The relationship between the absolute value of the acidity function of the medium and the velocity constant for the chlorination of p-phenylurethanesulphonic acid by chlorosulphonic acid has been determined for different temperatures. The variation of the velocity constant with initial concentration of p-phenylurethanesulphonic acid is discussed, and a quantitative theoretical treatment is given. (Author)

(Chemistry--Physical, TT, v. 5, no. 7)

61-15640

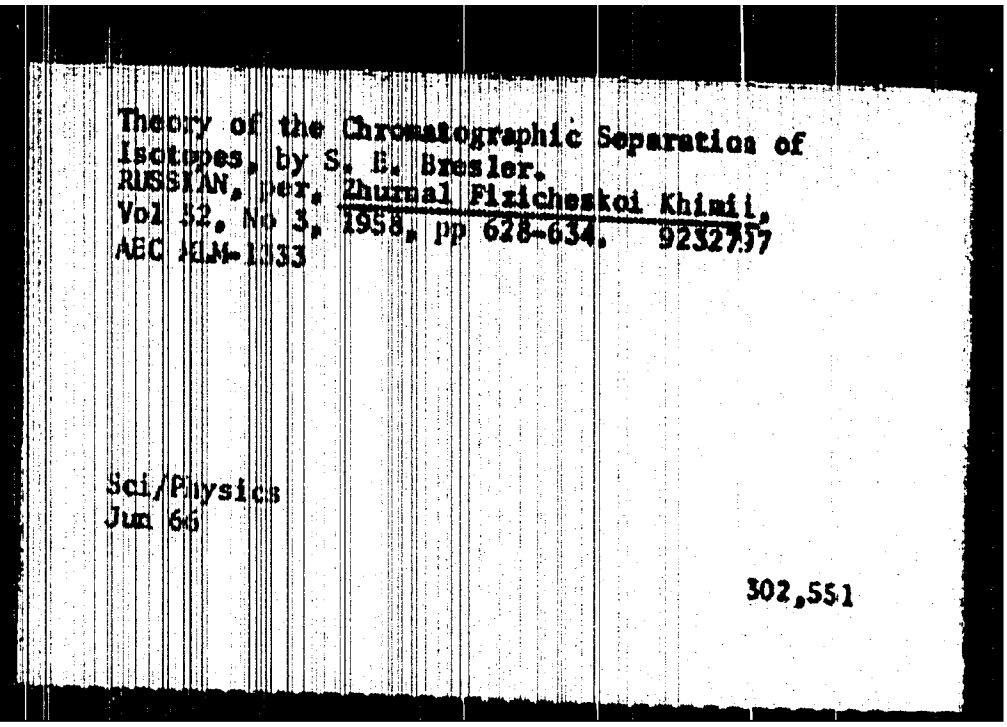
1. Sulfonic acids--Halogenation
2. Chlorosulfonic acid--Chemical reactions
I. Pal'm, V. A.
II. Title: Kinetics...
III. RTS-1732
IV. Department of Scientific and Industrial Research (Gt. Brit.)

148,763

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Theory of the Chromatographic Separation of Isotopes, by S. E. Bresler.
RUSSIAN, per. Zhurnal Fizicheskoi Khimii, Vol 32, No 3, 1958, pp 628-634, 9232797
AEC AEM-1133

Sci/Physics
Jun 66

302,551

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Theorie de la Separation Chromatographique des Isotopes (Theory of Chromatographic Separation of Isotopes), by S. E. Bresler, 12 pp.

RUSSIAN to FRENCH, per, Zhur Fiz Khim, Vol XXXII, 1958, pp 628-634.

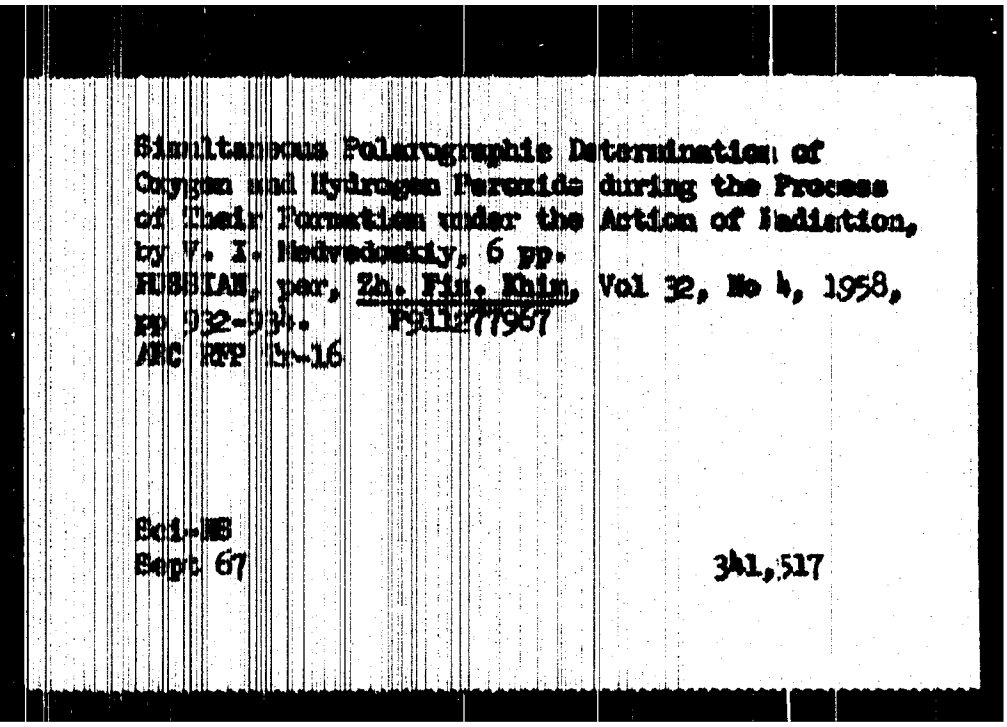
Reverse Trans
CEA Tr-R-1006

Sci

Sep 61

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Simultaneous Polarographic Determination of Oxygen and Hydrogen Peroxide during the Process of Their Formation under the Action of Radiation, by V. I. Medvedovskiy, 6 pp.
RUSSIAN, per. Zh. Fiz. Khim, Vol 32, No 4, 1958, pp 932-934. FSTC/T-1967
ARC RP 5-16

Sci-MB
Sept 67

341,517

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

The Dependence of the Potential of a Carbon Reference Electrode on the Oxygen Content of Molten Cryolite, by L. N. Antipin.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, 1958, pp 640-643.

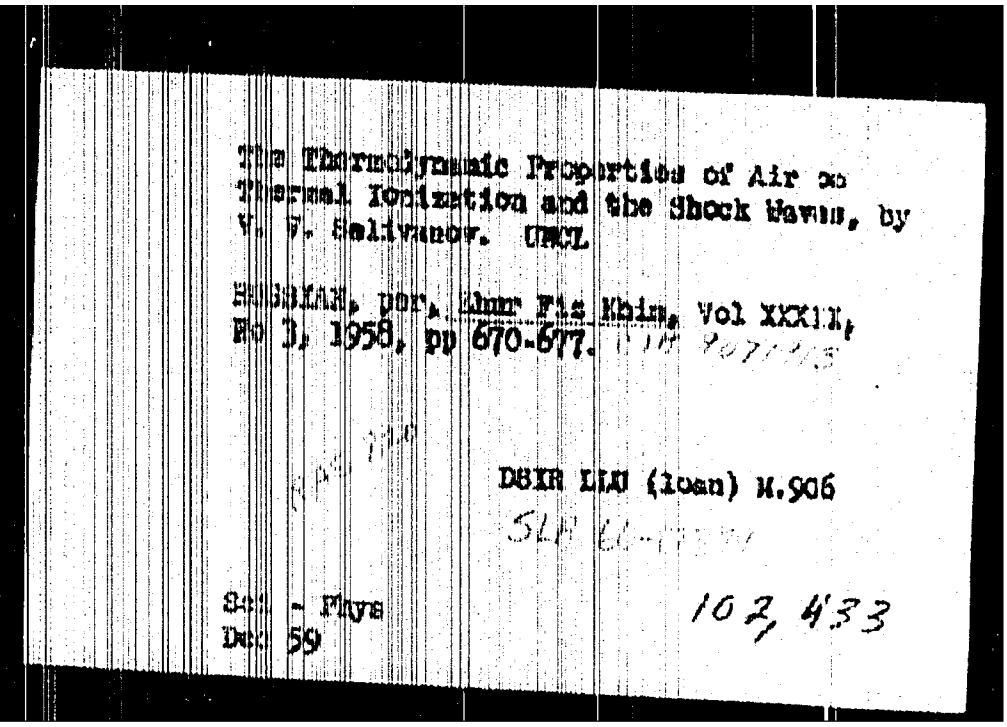
Dept of Interior
TN7 R57 No 545

215, 9.12

Sci - Min/Met
Oct 62

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



The Thermodynamic Properties of Air in Thermal Ionization and the Shock Waves, by V. F. Kalivanov. UMCL

ZHURNAL, per. Zhur Fiz Khim, Vol XXXII, No 3, 1958, pp 670-677.

DSIR LIB (loan) M.906

Sci - Phys
Dec 59

102,433

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Apparatus for Determining Pore Size Distribution,
by B. Kh. Burshtein,

RUSSIAN, Zur. Zhur Fiz Khim, Vol XXXII, No 3,
pp 695-698, 1958,

C.S.I.R.O.

Sci - Chem

May 58

116,407

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Isotopic Methods of Study of the Heterogeneity of Active Surfaces and the Interactions in Adsorptive Layer, by S. Z. Roginskiy, 11 pp.

RUSSIAN, Per, Zhur Fiz Khim, Vol XXXII, No 4, 1958, pp 737-745.

BLA 60-14116

Sci

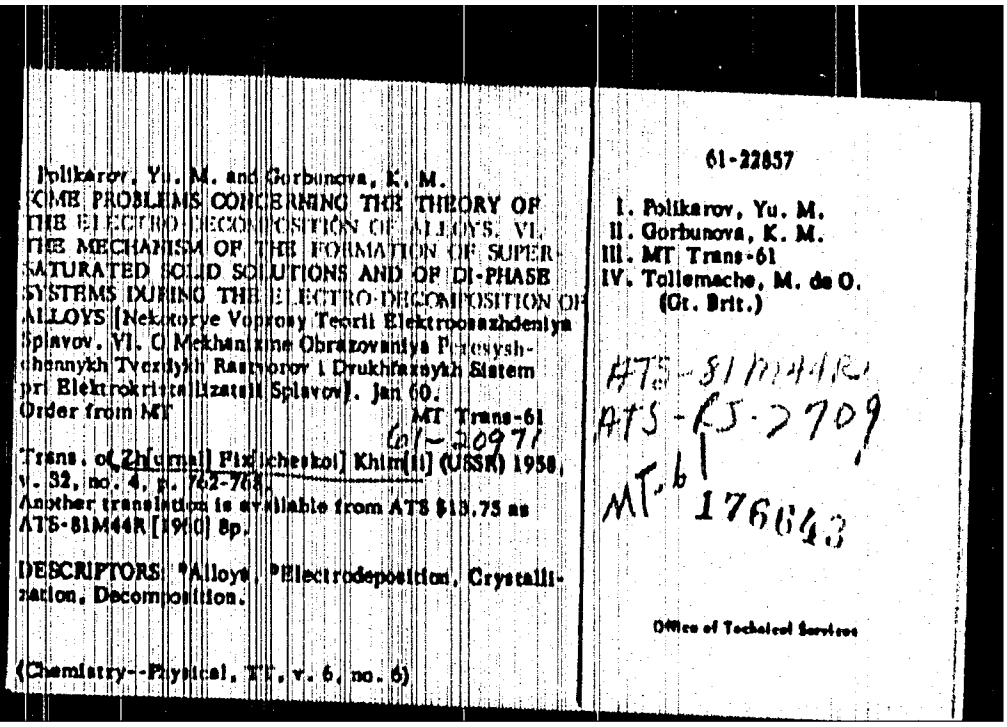
OTS, Vol III, No 7

Nov 60

133 086

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Polikarov, Yu. M. and Gorbunova, K. M.
SOME PROBLEMS CONCERNING THE THEORY OF THE ELECTRO-DECOMPOSITION OF ALLOYS. VI. THE MECHANISM OF THE FORMATION OF SUPER-SATURATED SOLID SOLUTIONS AND OF DI-PHASE SYSTEMS DURING THE ELECTRO-DECOMPOSITION OF ALLOYS [Nekotoryye Voprosy Teorii Elektrosazhdeniya Splavov. VI. O Mekhanizme Obrazovaniya Peresyshchennykh Tverdykh Rastvorov i Dvukhfaznykh Sistem pri Elektrokristallizatsii Splavov]. Jan 60.
Order from MT MT Trans-61
61-20971
Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1958, v. 32, no. 4, p. 762-768.
Another translation is available from ATS $13.75 as ATS-81M44R [1960] 8p.

DESCRIPTORS *Alloys, *Electrodeposition, Crystallization, Decomposition.

(Chemistry--Physical, TT, v. 6, no. 6)

61-22857

I. Polikarov, Yu. M.
II. Gorbunova, K. M.
III. MT Trans-61
IV. Tallemache, M. de O. (Gt. Brit.)

ATS-81M44R
ATS-CS-2709
MT-61
176643

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

The Partial Derivatives of the Fundamental Thermodynamic Functions in the Terms of Variables T and P, by M. A. Bazhenov, S. S. Sutyusheva.
RUSSIAN, ppr. Zhurnal Fizicheskoy Khimiy, Vol XXXII, No 4, 1958, pp 778-781.
NASA TT F-11,089

Sci-Math
Aug 67

338,693

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

The Brightness of Electrolytic Deposits and Its Relation to the Internal and External Structure of the Deposit, by K. M. Gorbunova, A. A. Butyagina.

[illegible], per, Zhur Fiz Khim, Vol XXXII, No 1, 1958, pp 785-790.

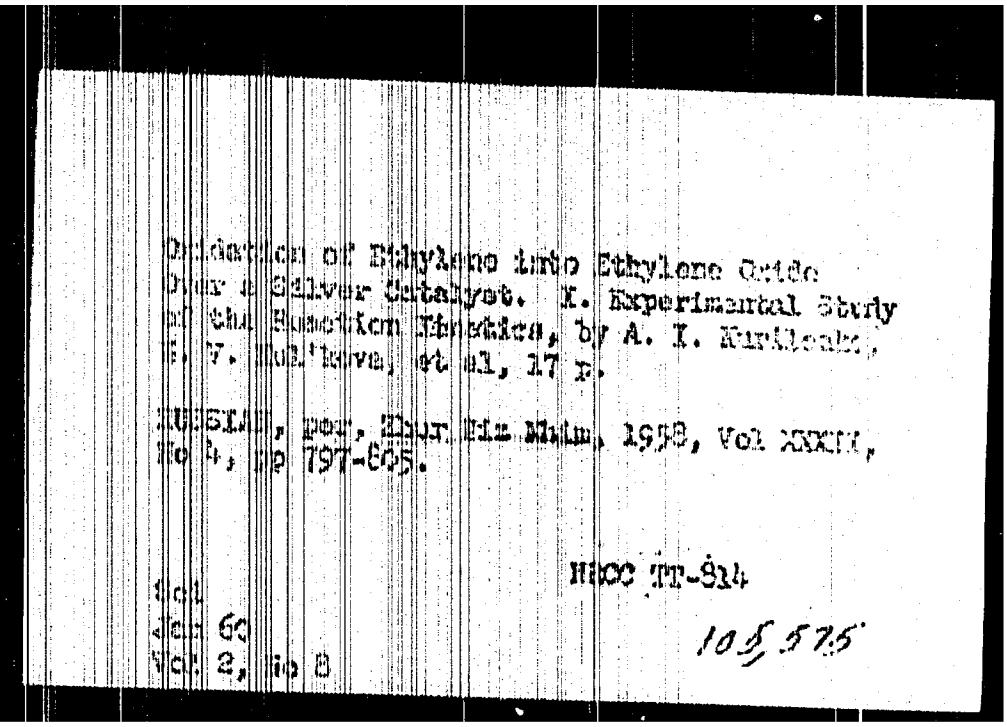
ATS RJ-2051

Sci - Chem
Dec 59

MT-62 10/0858

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Oxidation of Ethylene into Ethylene Oxide
Over a Silver Catalyst. I. Experimental Study
of the Reaction Kinetics, by A. I. Kurilenko,
E. V. Mol'tsova, et al, 17 p.

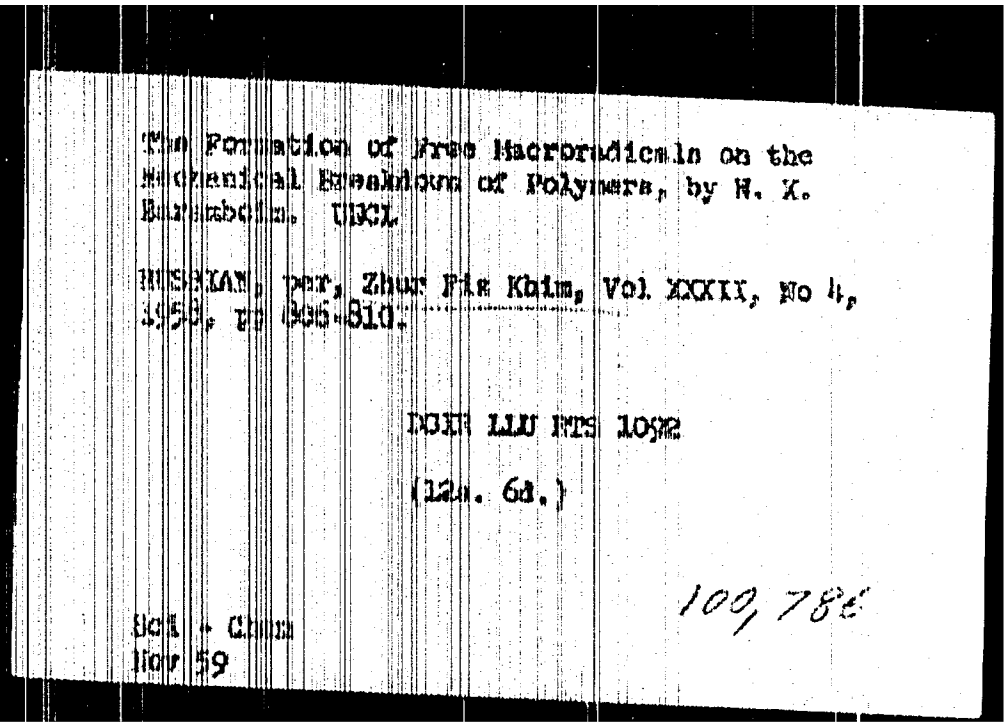
RUSSIAN, per. Zhur Fiz Khim, 1958, Vol XXXII,
No 4, pp 797-805.

NICC TT-914

105575

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



The Formation of Free Macroradicals in the Mechanical Breakdown of Polymers, by N. K. Baramboim. 1959.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIX, No 4, 1959, pp 805-810.

DDK LLU Pts 1092

(12p. 6d.)

109, 782

Sov + Chem
Nov 59

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

The Reaction of Nitrogen During Explosion, by A. Ya. Apin, Yu. A. Lebedev, O. I. Nefedova, 12 pp.

RUSSIAN, Zhur. Fiz. Khim, Vol XXXII, No 4, 1958, pp 819-824.

AEC F-TR-9932/V
AFC

Sci - Chem

Aug 59

94,580

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

The Connection Between the Texture and Properties of Electrolytic Nickel Deposits, by G. S. Vozdvizhenskiy, R. S. Shilfaullin.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 4, 1958, pp 881-883.

ATS RJ-2060

Sci - Chem
Dec 59

104,067

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Mysnikov, I. A.
SURFACE PROCESSES ON ZnO AND ITS ELECTRICAL CONDUCTIVITY IN A HYDROGEN ATMOSPHERE [Poverkhnostnyye Protsessy na ZnO i yeye Elektroprovodnost' v Atmosfere Vodoroda]. [1960]
8p.
Order from: ATS $10.05 ATS-77N48R

Trans. of Zhur[nal] F[izicheskoy] Khim[ii] (USSR)
1958, v. 32, no. 4, p. 881-887.

151564

(Physics--Solid State, TT, v. 3, no. 8)

61-12782

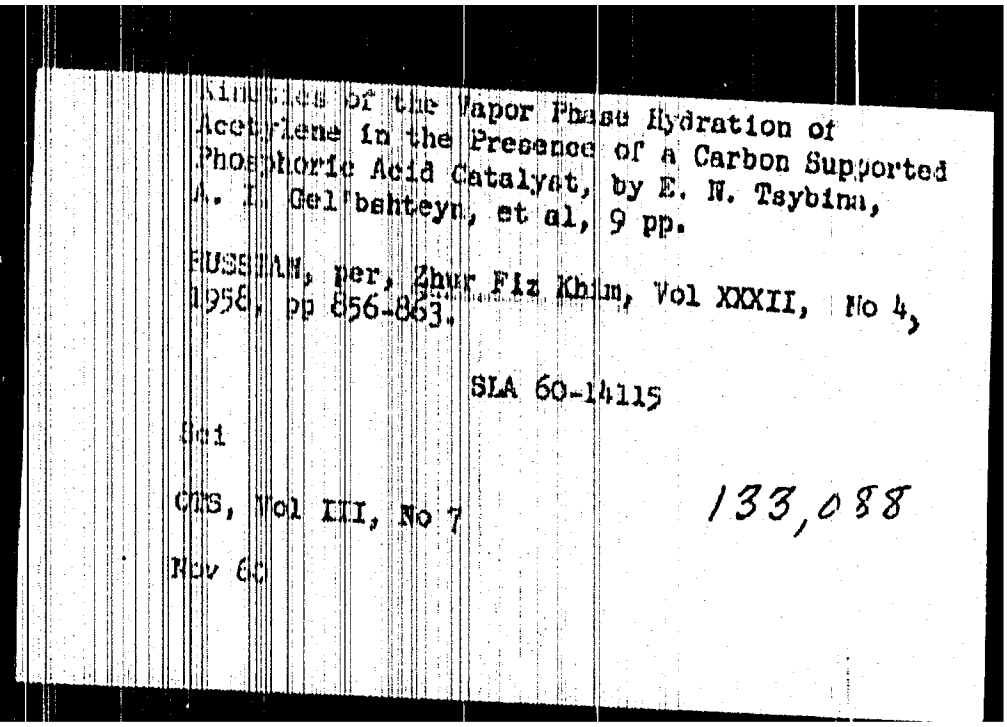
1. Zinc oxides--Electrical properties
2. Electrical conductance--Measurement
I. Mysnikov, I. A.
II. ATS-77N48R
III. Associated Technical Services, Inc., East Orange, N. J.

ATS/RT-3841

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Kinetics of the Vapor Phase Hydration of Acetylene in the Presence of a Carbon Supported Phosphoric Acid Catalyst, by E. N. Tsybina, A. I. Gel'bshteyn, et al, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 4, 1958, pp 856-863.

SLA 60-14115

Sci

CRS, Vol III, No 7

Nov 60

133,088

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

(DC-3518).

Isotopic Oxygen Exchange Between Water and Carbon Dioxide, by M. Ye. Kats, F. B. Lapteva, 8 pp.

ZHURNAL, Fiz. Khim, Vol XXXII, No 4, 1958, pp 854-858.

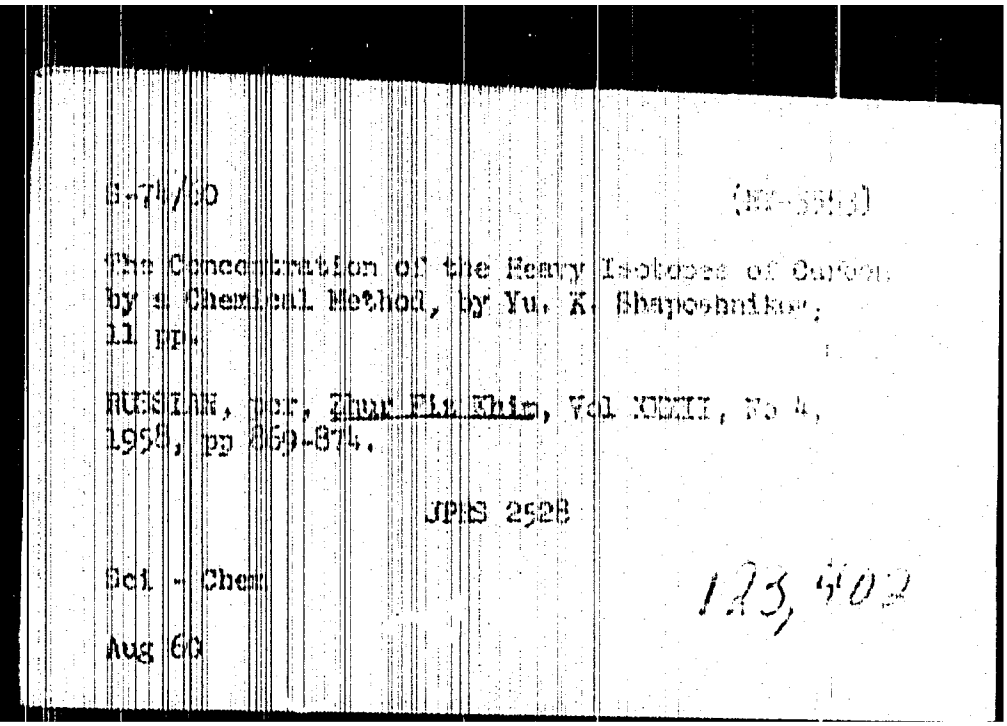
JPRS 3272

Sci & Tech, Chem
May 60

11?,420

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



S-74/60 (RR-5813)

The Concentration of the Heavy Isotopes of Carbon by a Chemical Method, by Yu. K. Shaposhnikov; 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 4, 1958, pp 869-874.

JPRS 2528

Sci - Chem

Aug 60

125,902

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

A Study of Iron-Chromium Catalysts in Dehydrogenation and Dehydration Reactions of Isopropyl Alcohol, by A. A. Balandin, et al.

RUSSIAN, Zhur. Fiz. Khim Vol XXXII, No 4 1958, pp 882-893.

ATS RJ-1090

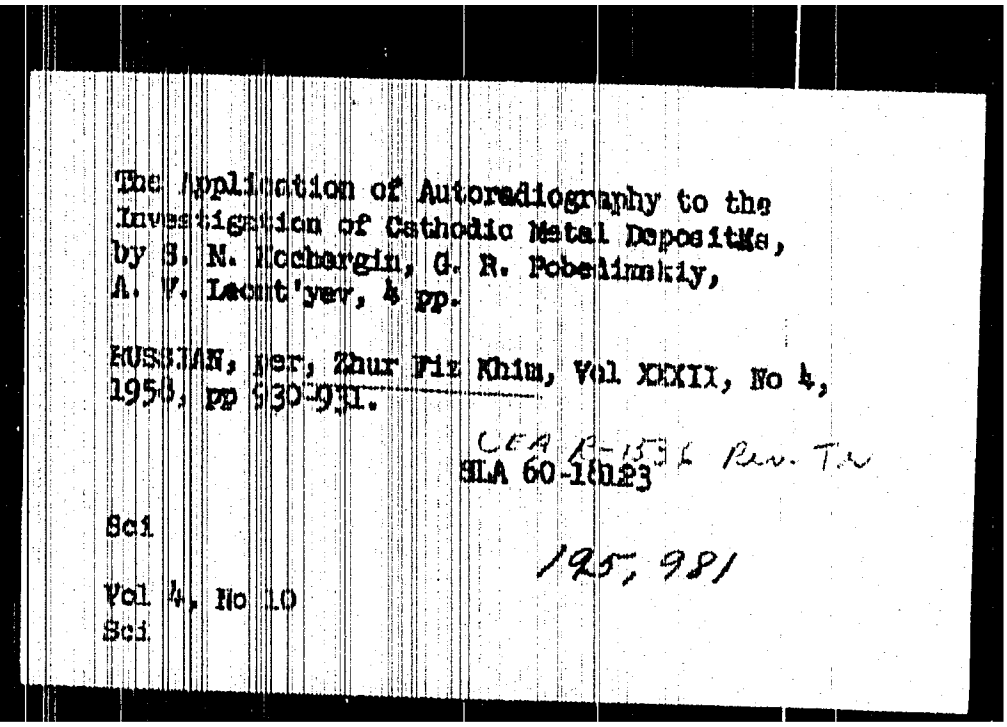
Sci - Chem

Jan 60

105 405

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



The Application of Autoradiography to the Investigation of Cathodic Metal Deposits, by B. N. Kocharglin, G. R. Pobedimskiy, A. V. Lecnt'yev, 4 pp.

RUSSIAN, Zhur Fiz Khim, Vol XXXII, No 4, 1958, pp 930-931.

CIA R-1534 Rev. 7-2
SLA 60-16123

Sci

195, 981

Vol 4, No 10
Sci

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Simultaneous Polarographic Determination of Oxygen and Hydrogen Peroxide During the Progress of Their Formation Under the Action of Radiation, by V. Medvedovskii.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 32, 1958, pp 932-934.
NTC-71-12489-07E

Nov 71

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

15 433 GF-4

DAVTYAN O. K.

Development of a new method of discovering leaks (outflows) in vacuum systems and high-pressure equipment

Ausarbeitung einer neuen Methode zur Entdeckung von Undichtigkeiten (Ausflüssen) in Vakuumsystemen und in Hochdruckapparaturen

Zhur. Fiz. Khim., 32, 935-936 (1958)

German

Euratom

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Photoreduction Mechanism of Chlorophyll and Its Sensitizing Effect, by V. B. Yevstigneyev, 15 p.

RUSSIAN, pub, Zhur Fiz Khim, 1958, Vol XXXII, No 5, pp 969-980.

SLA 59-17412

Sci
Feb 60
Vol 2, No 2

10Z 058

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

An Optical Investigation of the Molecular Structure of Derivatives of Sym-Triazine. II. The Ultraviolet Absorption Spectra, Molecular Structure, and Analysis of Ammeline and Ammelide, by N. I. Nalkina, A. I. Finkel'shtein,

RUSSIAN, Zur, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 981-985.

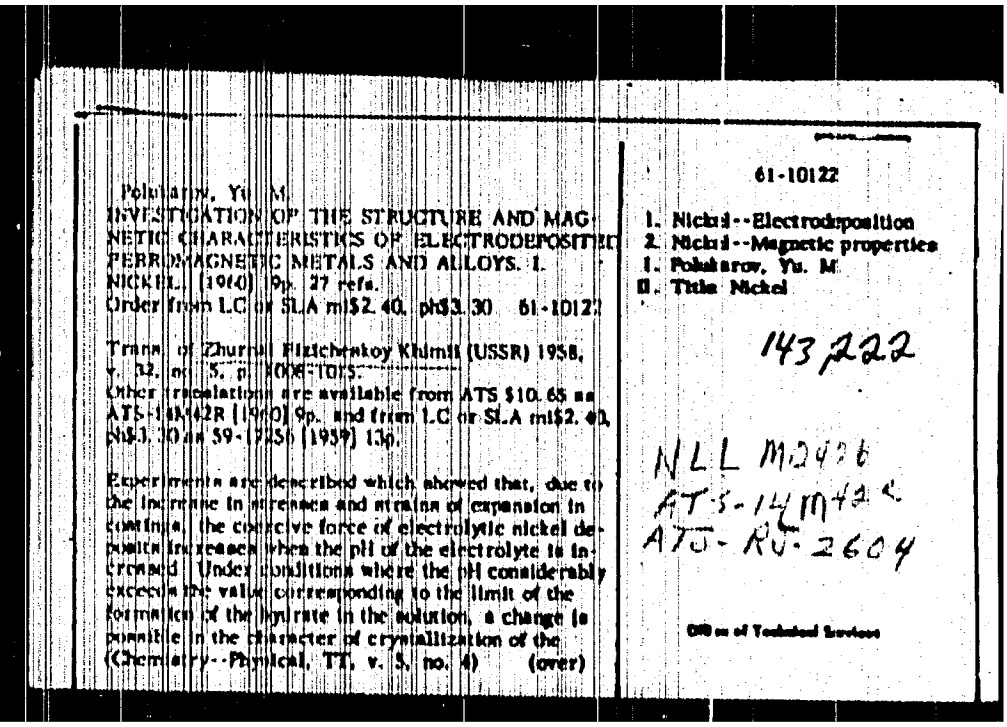
Assoc Tech Serv RJ-1434

Sci - Chem
Apr 59

85-3/3

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



Polukarov, Yu. M.
INVESTIGATION OF THE STRUCTURE AND MAGNETIC CHARACTERISTICS OF ELECTRODEPOSITED FERROMAGNETIC METALS AND ALLOYS. 1. NICKEL. [1960] 9p. 27 refs.
Order from LC or SLA mi$2.40, ph$3.30 61-10122

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1958, v. 32, no. 5, p. [illegible]
Other translations are available from ATS $10.65 as ATS-14M42R [1960] 9p. and from LC or SLA mi$2.40, ph$3.30 as 59-17258 [1959] 13p.

Experiments are described which showed that, due to the increase in stresses and strains of expansion in coatings, the coercive force of electrolytic nickel deposits increases when the pH of the electrolyte is increased. Under conditions where the pH considerably exceeds the value corresponding to the limit of the formation of the hydrate in the solution, a change is possible in the character of crystallization of the
(Chemistry--Physical, TT, v. 5, no. 4) (over)

61-10122

1. Nickel--Electrodeposition
2. Nickel--Magnetic properties
I. Polukarov, Yu. M.
II. Title: Nickel

143222

NLL M2426
AT-5-14M42R
ATS-RU-2604

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Oxidation of Ethylene to Ethylene Oxide on a Silver Catalyst, by A. I. Kurilenko, et al.

RUSSIAN, per Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1043-1048.

ATS RJ-1614

Sci - Chem
Jul 59

90,443

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Effect of the Nature of the Gas Medium on the Mechanical Destruction of Polymers, by N. K. Baramboim.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1049-1054.

ATS FJ-1853
DLA 59-20290

Sci - Chem

Jan 60

1a 5061

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Heats of Atomic and Molecular Chemisorption of Hydrogen on Nickel, Iron, Chromium and Platinum, by M. M. Kavtaradze,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1055-1058.

ATS RJ-2170

Sci - Chem

May 60

115 546

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

A Spectroscopic Study of the Turbulent Flame by V. Ya. Butarich, 5 pp.

RUSSIAN, Zhur. Fiz Khim., Vol XXXII, May 1959, pp 1077-1080.

ACSI M-2479 A

Sci - Physics

May 60

115,619

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

A Method for Confirming and Predicting Data Concerning Phase Equilibriums in Multicomponent Systems, by V. B. Kogan, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1095-1102.

SLA 60-17730

Sci

129,402

OTS, Vol IV, No 3

Sep 60

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Influence of the Electrophysical Properties of Germanium on Its Anodic Dissolution Process, by E. A. Efimov, I. G. Erusalimchuk, 8 pp.

RUSSIAN, Zhur Fiz Khim, 1958, Vol XXXII, No 5, pp 1103-1106.

BLA 59-14306

OTS

Sci - Phys
OTS I, 12
Jul 59

92, 336

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

An Experimental Study of the Stability of Open Luminary Diffusion Flames, by A. I. Maklakov, [illegible] 13 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, May 1958, pp 1107-1115.

ACSI M-2479 D

Sci - Chem

May 60

115, 621

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

An Investigation into the Critical Conditions of Gaseous Ozone Ignition, by S. A. Kamenetskaya, S. Ya. Pshezhetskiy, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, May 1958, pp 1122-1130.

ACSI B-2479 C

Sci - Chem

May 60

115, 620

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

A Method for Determining the Total and Partial Saturated Vapor Pressures of Liquid Binary Mixtures Over the Range 0.1 -10 mm Hg, by S. I. Sklyarenko, Ye. U. Samson, 9 pp.

RZKHIM, gor. Zhur Fiz Khim, Vol XXXII, 1958, pp 1149-1152.

AEC 3411

Sci - Phys

Dec 58

78,268

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

A Method for Cryoscopic Measurements, by T. N. Sumarokova, G. I. Arsenov.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1193-1194.

ATS RJ-1680

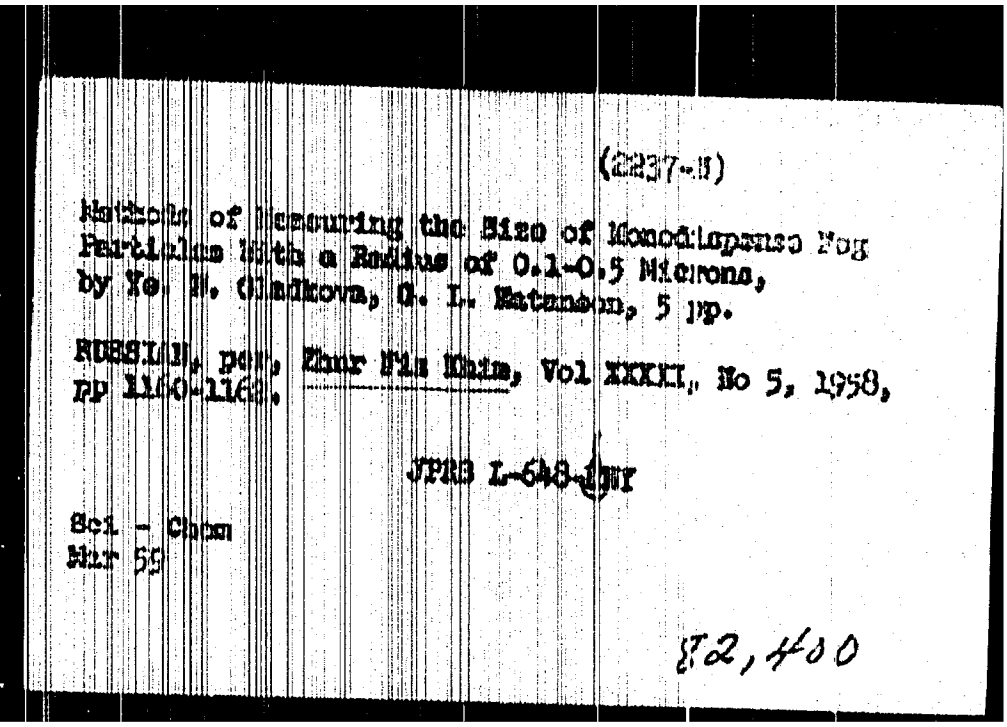
Sci - Chem

Jul 59

90,854

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2



(2237-11)

Methods of Measuring the Size of Monodisperse Fog Particles With a Radius of 0.1-0.5 Microns, by Ye. M. Minkova, O. L. Ratanova, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1160-1162.

JPRS L-648-[illegible]

Sci - Chem
Mar 59

$2,400

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

Linear Conformities Between Different
Physicochemical Properties of Hydrocarbons,
by V. M. Tatevskii,

RUSSIAN, per, Zhur Fiz Khim, Vol XXXI, No 5,
pp 1168-1170, 1958.

C.S.I.R.O.

Sci - Chem

May 60

116,409

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

[redacted]

Thermodynamic Decomposition of Glyceroldinitrite, by
B. D. Kondrikov, 3 pp.

RUSSIAN, per: Zhur Fiz Khim, Vol XXXII, 1958,
pp 1175-1178. 9097029

ASTIA UCRL Tr-525(L)

Soc. - Phys. Chem
Apr 60

189, 959

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2

(NY 5023)

Analytical Solution of the Problem of Thermal Explosion for the Cylindrical Case, by D. A. Frank-Kamenetskiy, 6 pp.

RUSSIAN, Pub, Zhur Fiz Khim, Vol XXXII, No 5, 1958, pp 1182, 1183.

JPRS 5869

Sci - Phys

Oct 60

129,603

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660046-2